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Water Resources Data for Oregon Water Year 1974. Part 1 Surface Water Records

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Water Year 1974

Part 1. Surface Water Records

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Water resources data for the 1974 water year for Oregon consist of stage, discharge of streams, lakes, and reservoirs. This report contains discharge records for 283 gaging stations; stage only records for 8 gaging stations; stage and contents for 36 lakes and reservoirs. Also included are 12 low-flow and 175 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Oregon.

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Prepared in cooperation with the State Engineer of Oregon
and with other agencies

Prepared in cooperation with

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Water resources records, 1974, for Oregon are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Oregon
Part 1: Surface Water Records

2. Water Resources Data for Oregon
Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
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Portland, Oregon 97208

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WATER RESOURCES DATA FOR OREGON, 1974

PART 1. SURFACE WATER RECORDS

INTRODUCTION

Surface-water records for the 1974 water year for Oregon, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report and their locations shown in figure 1. Records for a few pertinent gaging stations in bordering States also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of S. F. Kapustka, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Oregon.

Through September 30, 1960, the records of discharge and stage of streams and canals and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The discharge and reservoir storage records for 1961-65 have also been published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65," and those for 1966-70 will also be published in a water-supply paper series.

COOPERATION

The U.S. Geological Survey and organizations of the State of Oregon have had cooperative agreements for the systematic collection of surface-water records since 1905. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State of Oregon, C. L. Wheeler, State Engineer.

Oregon State Game Commission, John W. McKean, Director.

Oregon State Highway Commission, G.L. Jackson, Chairman.

Coos, Douglas, and Lane Counties.

Cities of Astoria, Coos Bay-North Bend, Eugene, Lakeside, McMinnville, Portland, and the Dalles.

Burnt River Irrigation District.

Assistance in the form of funds or services was given by the Forest Service, U.S. Department of Agriculture; Corps of Engineers, U.S. Army; Bonneville Power Administration, Bureau of Reclamation, Fish and Wildlife Service, Environmental Protection Agency, and Bureau of Land Management, U.S. Department of the Interior; National Weather Service, U.S. Department of Commerce; Eugene Water & Electric Board; Pacific Power & Light Co.; Portland General Electric Co.; Idaho Power Co., Idaho; Cowlitz County & Clark County Public Utility Districts, Washington.

DEFINITION OF TERMS

Definition of terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

Acre-foot(AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile(CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second(cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height(G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches(IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream.

Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 14335500, includes the part number "14" and a 6-digit station number. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figures to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised: "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation at a given time is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN.") or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas or if the average rainfall on the drainage basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height. The yearly summary gives the change in contents for the calendar year and for the water year.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimums in this summary are the minimum daily discharges.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE" certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Oregon for the period October 1960 to September 1965 are in Water-Supply Papers 1927, 1929, 1931, 1934, and 1935.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1314(10), 1315-B (11-A), and 1315-A(11-B), 1317(13), 1318(14); records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1734(10), 1735(11), 1737(13), 1738(14). These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Monthly records for several ungaged sites are given in a separate section following the gaged sites. The accuracy of records for ungaged sites is generally lower than those for gaged sites, depending on the precision of the computation method and the accuracy of data used in the computations.

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height record, and rating tables, is on file in the district office. Many gaging-station records in Oregon through 1967 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, on suspended-sediment concentration, and on the particle-size distribution of suspended sediment and bed material. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Records of Discharge Collected by Agencies Other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Oregon at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA. 22092, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

HYDROLOGIC CONDITIONS

Streamflow for October was near normal for the State.

Excessive streamflow existed during November for the entire State when near record monthly mean discharge occurred in the John Day, Umpqua and Wilson River basins.

Streamflow for December to March was excessive for the entire State and above normal for April to July.

August and September had near normal streamflow for the entire State.

The monthly mean discharge for John Day River at Service Creek was a new low for the period of record.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, reprinted 1957, Stream-gageing procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

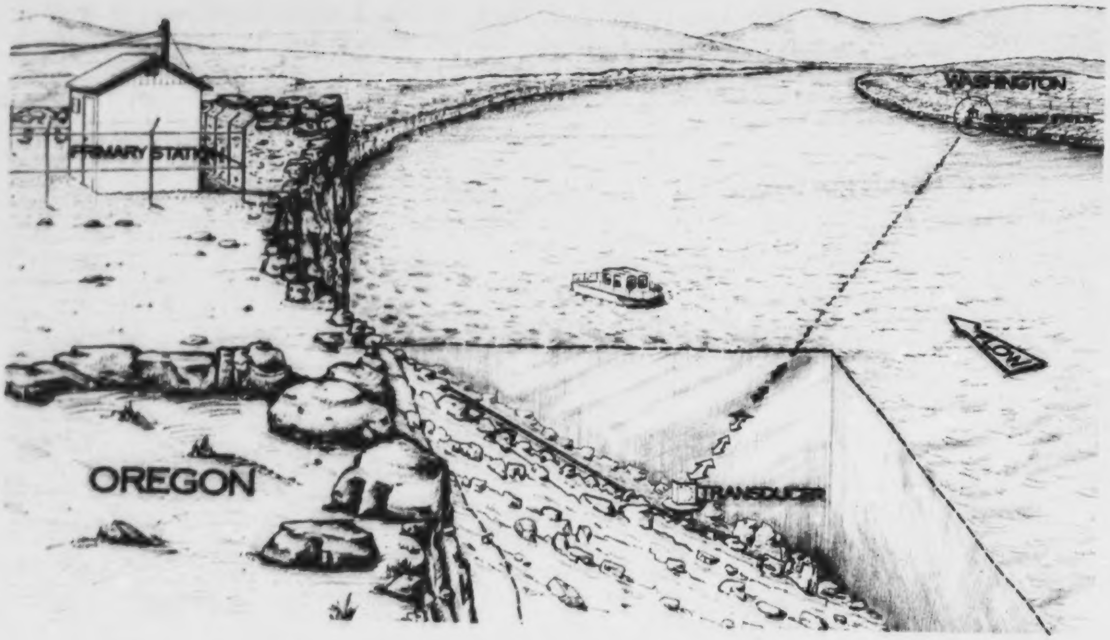
PRIMARY STATION
WASHINGTON
OREGON
TRANSDUCER
FLOW

Figure 1.--General view of the acoustic velocity meter gaging station on the Columbia River at The Dalles, Oregon, in the upper reach of Bonneville reservoir. The acoustic path at this site crosses the river at an oblique angle of about 53 degrees and has a length of 1,320 feet. An underwater transducer is installed on each side of the river at approximately 0.4 of the depth below the minimum water surface.

FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM (SI) UNITS

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
cubic feet (ft^3)	.02832	cubic metres (m^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	.02832	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

WARNER LAKES BASIN

10366000 TWENTYMILE CREEK NEAR ADEL, OREG.

LOCATION.--Lat 42°04'20", long 119°57'42", in SW¼NW¼ sec.25, T.40 S., R.23 E., Lake County, on left bank 1.5 mi (2.4 km) downstream from Twelvemile Creek and 8 mi (13 km) southwest of Adel.

DRAINAGE AREA.--194 mi^2 (502 km^2), including 46 mi^2 (119 km^2) in Cowhead Lake area.

PERIOD OF RECORD.--March 1910 to July 1916, December 1917 to September 1919, and March 1921 to June 1922 (published as "near Warner Lake"), September 1940 to November 1944, March 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,560.83 ft (1,390.141 m) above mean sea level. Prior to Sept. 21, 1940, nonrecording gage or water-stage recorder at sites within 1 mi (2 km) downstream at various datums. Sept. 21, 1940, to Nov. 30, 1944, water-stage recorder at site 1.8 mi (2.9 km) upstream at different datums. Mar. 12, 1945, to June 28, 1952, water-stage recorder at site 70 ft (21 m) upstream at datum 0.88 ft (0.268 m) higher.

AVERAGE DISCHARGE.--39 years (1910-15, 1918-19, 1940-44, 1945-74), 53.2 ft^3/s (1.507 m^3/s), 38,540 acre-ft/yr (47.5 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) Jan. 15, gage height, 9.86 ft (3.005 m); minimum, 3.8 ft^3/s (0.11 m^3/s) Aug. 12.

Period of record: Maximum discharge, 3,670 ft^3/s (104 m^3/s) Dec. 23, 1964, gage height, 16.1 ft (4.91 m), from rating curve extended above 920 ft^3/s (26.1 m^3/s) on basis of contracted-opening measurement of 3,260 ft^3/s (92.3 m^3/s); no flow at times.

REMARKS.--Records good. Some regulation by pumpage from Cowhead Lake. Diversions in Oregon for irrigation above station; considerable diversions for irrigation in Cowhead Lake area in California.

REVISIONS (WATER YEARS).--WSP 1090: 1945. WSP 1514: 1951-53, 1954(M).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.1	160	48	37	111	464	104	108	22	5.8	4.0
2	4.4	5.4	72	45	33	72	429	114	110	22	5.8	4.0
3	4.4	5.1	43	42	40	56	350	108	117	19	5.4	4.0
4	4.0	4.4	38	42	32	36	453	111	108	16	5.4	4.0
5	4.0	4.4	26	40	29	39	457	122	120	15	5.8	4.0
6	4.0	4.7	26	39	30	174	318	142	113	15	6.1	4.0
7	6.1	5.8	262	38	28	90	220	162	104	14	5.1	4.0
8	6.8	12	180	38	26	65	190	202	90	15	5.1	4.0
9	5.4	11	60	38	26	54	168	216	78	19	5.1	4.4
10	4.7	30	37	38	25	40	132	180	78	18	4.7	4.4
11	4.7	68	32	42	25	104	128	174	77	16	4.4	4.4
12	4.7	136	23	46	22	238	136	168	78	14	4.4	4.4
13	4.4	47	24	80	21	197	113	136	75	13	4.7	4.4
14	4.4	37	23	130	21	574	111	120	75	10	4.7	4.4
15	4.4	47	22	1.630	19	993	119	119	68	9.7	4.7	4.4
16	4.4	55	35	1.480	21	935	126	105	62	9.2	4.7	4.4
17	4.7	57	395	679	18	1.270	122	99	57	9.2	4.4	4.4
18	4.4	51	137	628	19	776	140	95	53	9.2	4.4	4.4
19	4.4	23	43	629	19	568	140	86	50	8.6	4.4	4.4
20	5.1	25	38	240	16	389	162	78	50	8.1	4.7	4.4
21	5.4	26	37	111	17	376	142	72	47	7.5	4.7	4.4
22	5.4	26	35	108	28	370	111	72	42	7.5	4.7	4.4
23	5.8	27	30	95	15	354	105	81	41	7.2	4.4	4.4
24	6.1	26	24	74	17	369	108	90	37	6.8	4.4	4.4
25	6.1	22	27	71	16	373	86	111	33	6.5	4.4	4.0
26	5.8	26	30	57	18	343	81	132	28	6.5	4.4	4.0
27	5.4	22	28	59	13	315	83	154	25	6.1	4.4	4.0
28	5.1	26	65	50	20	240	80	150	24	6.5	4.0	4.0
29	5.1	62	741	47	------	925	77	132	24	6.1	4.0	4.0
30	5.1	206	154	44	------	1.090	86	119	22	5.8	4.0	4.0
31	5.1	------	53	42	------	317	------	110	------	5.8	4.0	------
TOTAL	154.2	1.102.9	2.903	6.750	653	11.853	5.437	3.864	1.994	354.3	147.2	126.4
MEAN	4.97	36.6	93.6	218	23.3	382	181	125	66.5	11.4	4.75	4.21
MAX	6.8	206	741	1.630	40	1.270	464	216	120	22	6.1	4.4
MIN	4.0	4.4	22	38	13	36	77	72	22	5.8	4.0	4.0
AC-FT	306	2.190	5.760	13.390	1.300	23.510	10.780	7.660	3.960	703	292	251

CAL YR 1973 TOTAL 15.713.4 MEAN 43.1 MAX 741 MIN 1.5 AC-FT 31.170
WTR YR 1974 TOTAL 35.339.0 MEAN 96.8 MAX 1.630 MIN 4.0 AC-FT 70.090

PEAK DISCHARGE (BASE, 510 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1930	5.42	626	1-18	2200	7.68	1,460
12-17	1300	5.95	785	3-12	2100	4.80	530
12-29	1330	7.67	1,300	3-15	2030	8.41	1,680
1-15	2400	9.86	2,120	3-29	1800	9.06	1,880

10371500 DEEP CREEK ABOVE ADEL, OREG.

LOCATION.--Lat 42°11'21", long 120°00'02", in SW¼NW¼ sec.15, T.39 S., R.23 E., Lake County, on left bank 700 ft (213 m) downstream from Drake Creek and 5 mi (8 km) west of Adel.

DRAINAGE AREA.--249 mi^2 (645 km^2).

PERIOD OF RECORD.--September 1922 to September 1923, October 1929 to current year. Monthly discharge only October 1929 to September 1932, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,980.34 ft (1,518.008 m) above mean sea level (State Highway Department bench mark). Sept. 8 to Dec. 20, 1922, nonrecording gage. Dec. 21, 1922, to Sept. 30, 1923, and Oct. 11, 1929, to Dec. 23, 1964, water-stage recorder at site 700 ft (213 m) downstream at different datums. Jan. 20 to Sept. 30, 1965, nonrecording gage at site 2,000 ft (610 m) downstream at different datum.

AVERAGE DISCHARGE.--46 years, 130 ft^3/s (3.68 m^3/s), 94,180 acre-ft/yr (116 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,320 ft^3/s (94.0 m^3/s) Mar. 17, gage height, 5.13 ft (1.564 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 3, 4, Aug. 24 to Sept. 5.

Period of record: Maximum discharge, 9,420 ft^3/s (267 m^3/s) Dec. 23, 1964, gage height, 10.64 ft (3.243 m), from floodmark, from rating curve extended above 1,100 ft^3/s (31.2 m^3/s) on basis of slope-area measurements at 7.3 ft (2.2 m) and of peak flow; minimum, 1.7 ft^3/s (0.048 m^3/s) July 20, 27-29, 1934.

REMARKS.--Records good. No regulation. Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	33	203	83	109	78	420	744	465	69	23	16
2	17	26	150	75	123	70	450	840	455	66	21	16
3	17	25	131	75	129	83	440	786	460	60	20	16
4	17	23	111	70	109	82	485	808	435	51	19	16
5	17	23	117	65	100	76	555	864	530	44	19	16
6	18	35	140	65	104	82	475	912	500	44	20	18
7	49	102	320	65	133	75	380	1,000	425	44	20	22
8	40	348	300	65	125	75	380	1,160	376	50	19	21
9	34	148	183	65	107	73	356	1,210	340	60	19	21
10	24	218	138	65	104	78	312	1,020	312	50	19	21
11	24	324	127	80	100	76	344	936	304	45	18	22
12	22	552	85	100	98	82	356	872	288	40	17	22
13	21	320	102	170	94	78	328	723	284	35	17	22
14	21	212	111	304	89	273	340	648	262	32	17	22
15	20	206	117	1,500	87	1,080	396	600	233	29	17	23
16	19	233	125	1,360	94	1,130	460	545	221	27	17	23
17	19	263	288	998	82	2,060	540	530	209	26	17	23
18	18	194	242	951	80	1,030	565	540	197	26	17	22
19	18	143	153	903	55	636	490	505	182	26	17	22
20	23	95	135	500	80	515	505	460	175	25	17	22
21	30	98	133	336	82	450	565	415	160	24	17	22
22	31	123	125	296	73	425	674	376	142	23	17	22
23	42	123	102	266	76	400	709	388	135	23	17	22
24	48	109	106	236	102	420	585	415	112	22	17	22
25	51	104	143	227	80	465	530	475	100	22	17	22
26	38	107	113	188	73	475	465	560	88	23	17	21
27	35	107	94	180	68	545	430	618	77	23	17	22
28	33	113	92	168	75	425	400	600	69	22	17	22
29	34	145	203	163	------	660	455	580	69	22	16	22
30	33	218	178	153	------	1,020	555	520	65	22	16	22
31	32	------	125	117	------	585	------	485	------	21	16	------
TOTAL	862	4,770	4,692	9,889	2,631	13,602	13,945	21,135	7,670	1,096	554	625
MEAN	27.8	159	151	319	94.0	439	465	682	256	35.4	17.9	20.8
MAX	51	552	320	1,500	133	2,060	709	1,210	530	69	23	23
MIN	17	23	85	65	55	70	312	376	65	21	16	16
AC-FT	1,710	9,460	9,310	19,610	5,220	26,980	27,660	41,920	15,210	2,170	1,100	1,240

CAL YR 1973 TOTAL 42,350.6 MEAN 116 MAX 560 MIN 8.0 AC-FT 84,000
WTR YR 1974 TOTAL 81,471.0 MEAN 223 MAX 2,060 MIN 16 AC-FT 161,600

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1230	3.07	777	4- 4	2000	3.27	779
1-16	2000	4.45	2,070	4-18	2100	3.08	648
3-17	2300	5.13	3,320	4-23	2200	3.31	808
3-29	2200	3.83	1,250	5- 9	0300	4.01	1,410

10378500 HONEY CREEK NEAR PLUSH, OREG.

LOCATION.--Lat 42°25'30", long 119°55'20", in SW¼SW¼ sec.20, T.36 S., R.24 E., Lake County, on right bank 700 ft (213 m) upstream from mouth of canyon, 1 mi (1.6 km) northwest of Plush, and 4 mi (6.4 km) downstream from Twelvemile Creek.

DRAINAGE AREA.--170 mi² (440 km²), approximately.

PERIOD OF RECORD.--May 1909 to September 1914 (prior to January 1910, gage heights only), March to May 1915, March to September 1921, March to June 1922, May 1930 to current year. Monthly discharge only May 1930 to September 1949, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,552.60 ft (1,387.632 m) above mean sea level. Dec. 24, 1964, to Sept. 30, 1965, nonrecording gage at site 100 ft (30 m) downstream at different datums. See WSP 1927 for history of changes prior to Dec. 24, 1964.

AVERAGE DISCHARGE.--48 years (1910-14, 1930-74), 30.3 ft³/s (0.86 m³/s), 21,950 acre-ft/yr (27.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,210 ft³/s (34.3 m³/s) Jan. 16, gage height, 6.56 ft (1.999 m); minimum, 0.57 ft³/s (0.016 m³/s) Sept. 1, 2.

Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Dec. 23, 1964, gage height, 13.4 ft (4.08 m), from floodmark, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurements at gage height 10.46 ft (3.188 m) and of peak flow; no flow at times.

REMARKS.--Records good except those for winter months, which are fair. Slight regulation by five small reservoirs, combined capacity, 870 acre-ft (1.07 hm³). Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1564: 1911-12. WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	4.5	35	13	28	22	151	189	107	18	2.7	.57
2	1.2	4.7	15	12	28	20	131	227	102	11	3.1	.65
3	.97	4.5	14	11	29	17	107	211	96	17	3.2	.69
4	.90	4.3	13	11	24	18	96	211	99	18	2.9	.73
5	.86	5.2	14	11	21	21	128	223	109	17	2.7	.77
6	.86	5.4	16	10	22	30	111	239	103	17	2.9	.77
7	1.1	8.5	35	10	21	21	89	260	93	17	4.5	1.5
8	1.3	21	30	10	19	16	89	283	86	17	5.9	4.0
9	1.5	24	21	10	17	16	90	303	79	31	4.1	4.3
10	1.6	17	16	10	15	20	79	260	73	27	2.6	4.3
11	1.7	17	12	11	14	22	77	241	63	27	2.2	2.7
12	1.7	42	9.4	12	13	29	79	233	59	21	1.8	1.3
13	1.7	35	9.2	18	12	31	74	203	56	19	1.5	1.1
14	1.7	20	9.0	181	11	80	73	171	57	15	1.3	1.1
15	1.6	19	10	560	10	436	78	165	48	12	1.4	1.1
16	1.7	19	18	529	10	523	89	151	44	11	1.4	1.0
17	1.6	26	36	424	10	515	102	146	42	10	1.2	.97
18	1.5	24	34	371	10	345	136	149	33	8.3	1.1	.89
19	1.6	13	19	318	10	221	117	139	34	7.5	.93	.81
20	1.8	10	13	154	9.5	153	116	128	35	6.9	.89	.89
21	1.8	11	12	90	10	116	127	125	32	6.3	1.0	.93
22	2.1	13	11	89	12	103	158	135	32	5.9	1.1	.93
23	2.3	13	10	77	10	93	185	138	25	4.3	1.0	.93
24	3.0	12	11	65	11	93	144	117	24	3.5	.97	1.0
25	3.8	12	19	59	10	106	128	116	27	2.9	.85	1.0
26	4.1	12	16	45	11	98	114	122	26	2.7	.73	.97
27	3.6	11	13	47	12	114	104	133	24	2.9	.77	.97
28	3.4	12	16	40	20	101	96	138	23	3.2	.73	1.0
29	4.1	18	24	40	------	123	99	139	20	3.1	.69	1.1
30	4.3	33	19	37	------	320	127	127	21	2.9	.65	1.1
31	4.3	------	15	36	------	181	------	117	------	2.8	.59	------
TOTAL	64.99	471.1	544.6	3.311	429.5	4,004	3,294	5,539	1.672	368.2	57.40	40.07
MEAN	2.10	15.7	17.6	107	15.3	129	110	179	55.7	11.9	1.85	1.34
MAX	4.3	42	36	560	29	523	185	303	109	31	5.9	4.3
MIN	.86	4.3	9.0	10	9.5	16	73	116	20	2.7	.59	.57
AC-FT	129	934	1.080	6.570	852	7,940	6.530	10.990	3.320	730	114	79

CAL YR 1973 TOTAL 7.742.39 MEAN 21.2 MAX 149 MIN .10 AC-FT 15.360
WTR YR 1974 TOTAL 19.795.86 MEAN 54.2 MAX 560 MIN .57 AC-FT 39.270

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-16	2100	6.56	1,210	4-23	0530	3.90	205
3-16	2130	6.30	1,060	5- 9	0430	4.51	348
3-30	0900	4.48	340				

10382000 ABERT LAKE NEAR VALLEY FALLS, OREG.

LOCATION.--Lat 42°36'13", long 120°11'09", in NW¼SE¼ sec.24, T.34 S., R.21 E., Lake County, 10 mi (16 km) northeast of Valley Falls, on east shore of lake.

DRAINAGE AREA.--860 mi² (2,230 km²), approximately.

PERIOD OF RECORD.--October 1915 to September 1918 (fragmentary), October 1961 to current year. Fragmentary records for period 1919 to 1961 available in files of Portland district office.

GAGE.--Nonrecording gage. Datum of gage is 4,247.78 ft (1,294.723 m) above mean sea level. Gage readings have been reduced to elevations above mean sea level. Prior to September 1961, nonrecording gage and various reference marks used, and September 1961 to July 3, 1963, water-stage recorder.

EXTREMES.--Current year: Maximum elevation not determined; minimum elevation observed, 4,257.33 ft (1,297.634 m) Oct. 4.
Period of record: Maximum elevation, 4,261.8 ft (1,299.00 m), from high-water mark, occurred during June 1972. Prior to 1905 a well defined beach line was formed at elevation 4,269.7 ft (1,301.40 m). Lake was dry in 1924; practically dry at times in 1926, 1930, 1931, and 1934.

REMARKS.--Many diversions for irrigation on streams tributary to the Lake. The lake has no outlet and the water is highly mineralized.

AREA AND VOLUME OF ABERT LAKE

Altitude (ft)	Area (acres)	Volume (acre-ft)	Altitude (ft)	Area (acres)	Volume (acre-ft)
4,244±	dry	0	4,253	35,300	209,000
4,245	7,800	4,000	4,254	36,400	245,000
4,246	13,700	14,800	4,255	37,300	282,000
4,247	19,500	31,400	4,256	38,200	320,000
4,248	24,800	53,500	4,257	39,000	358,000
4,249	28,100	80,000	4,258	39,700	397,000
4,250	30,500	110,000	4,259	40,300	437,000
4,251	32,400	141,000	4,260	40,800	478,000
4,252	33,900	174,000	4,262	42,000	560,000

ELEVATION, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)
Oct. 4	4,257.33

10384000 CHEWAUCAN RIVER NEAR PAISLEY, OREG.

LOCATION.--Lat 42°41'05", long 120°34'08", in SW¼NW¼ sec.26, T.33 S., R.18 E., Lake County, on left bank 1.2 mi (1.9 km) downstream from Mill Creek and 1.4 mi (2.3 km) southwest of Paisley.

DRAINAGE AREA.--275 mi^2 (712 km^2).

PERIOD OF RECORD.--April 1912 to September 1921, May 1924 to current year. Published as "above Conn ditch, near Paisley" April to September 1912 and May 1924 to September 1955, as "above Mill Creek, near Paisley" October 1912 to December 1913, and as "at Chewaucan Land & Cattle Co.'s gage, near Paisley" January to September 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,430 ft (1,350 m) above mean sea level (river-profile survey). See WSP 1734 for history of changes prior to Oct. 6, 1956.

AVERAGE DISCHARGE.--59 years, 145 ft^3/s (4.106 m^3/s), 105,100 acre-ft/yr (130 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,640 ft^3/s (46.4 m^3/s) Jan. 15, gage height, 4.12 ft (1.256 m); minimum, 30 ft^3/s (0.850 m^3/s) Sept. 26, 27.

Period of record: Maximum discharge, 6,490 ft^3/s (184 m^3/s) Dec. 22, 1964, gage height, 8.35 ft (2.545 m), from rating curve extended above 900 ft^3/s (25.5 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of each day Dec. 7, 1927, Dec. 12, 1932, result of freezeup.

REMARKS.--Records good. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 860: Drainage area. WSP 1927: 1957-59.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	63	239	68	170	117	614	744	792	163	47	32
2	35	50	173	65	139	109	614	834	806	150	47	32
3	35	47	150	72	165	91	495	898	813	136	45	32
4	35	48	121	66	165	107	452	920	813	129	44	32
5	35	46	153	62	105	115	500	989	898	123	43	33
6	36	53	155	62	121	129	443	1.080	806	125	52	33
7	47	86	251	62	141	111	380	1.180	750	125	46	33
8	46	211	221	62	134	91	380	1.360	667	127	40	33
9	43	185	163	62	127	94	359	1.480	614	192	38	33
10	39	355	153	68	123	117	327	1.360	592	152	44	35
11	40	580	145	78	123	115	331	1.240	587	138	40	35
12	39	757	139	95	123	129	339	1.180	587	123	44	35
13	39	416	134	120	103	121	323	1.040	592	109	40	36
14	39	311	145	180	123	182	327	935	570	98	40	35
15	37	274	145	1.000	113	434	347	890	537	89	40	35
16	36	260	178	1.020	119	510	380	757	521	82	40	34
17	36	248	271	778	102	685	429	711	500	80	39	33
18	36	224	198	711	115	543	510	667	470	79	38	33
19	36	153	143	631	107	438	480	620	438	80	39	33
20	40	130	170	438	96	398	480	554	402	76	41	33
21	49	140	195	331	123	363	510	521	363	73	40	33
22	64	150	169	311	107	367	592	485	327	70	38	32
23	71	150	150	295	91	363	655	490	303	67	37	32
24	76	150	134	260	109	367	620	521	274	59	36	32
25	67	141	200	251	119	411	581	587	245	56	36	31
26	54	134	132	224	115	407	532	724	230	52	35	31
27	50	139	168	215	93	443	490	890	212	52	33	31
28	50	145	185	200	111	425	461	958	195	46	33	31
29	54	212	257	188	------	749	500	920	183	52	32	31
30	49	285	140	188	------	1.250	570	869	168	47	31	31
31	50	------	95	180	------	744	------	820	------	45	30	------
TOTAL	1.399	6.143	5.271	8.343	3.382	10.525	14.021	27.224	15.255	2.995	1.228	985
MEAN	45.1	205	170	269	121	340	467	878	509	96.6	39.6	32.8
MAX	76	757	271	1.020	170	1.250	655	1.480	898	192	52	36
MIN	35	46	95	62	91	91	323	485	168	45	30	31
AC-FT	2.770	12.180	10.460	16.550	6.710	20.880	27.810	54.000	30.260	5.940	2.440	1.950

CAL YR 1973 TOTAL 44.207 MEAN 121 MAX 757 MIN 17 AC-FT 87.680
WTR YR 1974 TOTAL 96.771 MEAN 265 MAX 1.480 MIN 30 AC-FT 191.900

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1130	3.33	912	3-30	0830	3.91	1,420
1-15	1800	4.12	1,640	5- 9	0530	4.07	1,590
3-17	0100	3.23	876	5-28	0630	3.43	989

10388000 ANA RIVER NEAR SUMMER LAKE, OREG.

LOCATION.--Lat 43°00'00", long 120°45'00", in SE¼ sec.6, T.30 S., R.17 E., Lake County, on left bank 300 ft (91 m) downstream from diversion dam and 2.0 mi (3.2 km) northeast of town of Summer Lake.

PERIOD OF RECORD.--October 1929 to September 1939 (river only); June to September 1928, April 1931 to July 1938, and April 1940 to September 1942 (irrigation season records for Summer Lake Canal only); June 1951 to current year. Prior to June 1951 monthly discharge only, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,160 ft (1,268 m) from plans of Ana River diversion dam. Oct. 1, 1929, to Sept. 30, 1939, at site 80 ft (24 m) downstream at different datum.

AVERAGE DISCHARGE.--26 years (1930-32, 1935-36, 1951-74), 92.5 ft³/s (2.620 m³/s), 67,020 acre-ft/yr (82.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 115 ft³/s (3.26 m³/s) Oct. 8; minimum, 41 ft³/s (1.16 m³/s) May 7, 8.
Period of record: Maximum discharge, 188 ft³/s (5.32 m³/s) Dec. 22, 1964, gage height, 2.81 ft (0.856 m), no flow in canal; minimum, 1.0 ft³/s (0.028 m³/s) Jan. 21, 22, 1970; minimum daily, 3.0 ft³/s (0.085 m³/s) Oct. 31, 1970.

REMARKS.--Records good. All records presented herein include flow in Summer Lake Canal which diverts 300 ft (91 m) above station for irrigation of lands along west side of Summer Lake. Flow regulated by gates at diversion dam. Source of stream is Ana River Springs, three-quarters of a mile above station, which are flooded over by pondage behind diversion dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	89	89	91	91	90	94	81	87	80	78	81
2	90	89	89	91	91	91	94	82	87	79	79	82
3	90	89	89	91	91	91	94	85	88	81	80	80
4	90	89	89	91	91	91	94	86	86	87	81	81
5	93	88	90	90	91	91	94	85	85	83	80	86
6	93	87	90	90	91	91	94	86	85	83	83	92
7	93	87	90	90	91	91	94	57	83	83	85	94
8	99	88	90	90	91	91	94	71	84	81	85	91
9	111	89	90	89	91	91	93	77	85	80	84	90
10	108	89	90	89	90	91	93	88	86	80	81	90
11	105	90	90	89	90	93	93	86	87	80	82	88
12	102	90	90	89	90	93	91	83	87	78	82	88
13	99	90	90	89	90	91	91	86	88	82	80	86
14	97	89	90	89	90	93	91	88	88	82	86	84
15	96	89	90	89	90	93	91	87	88	81	87	84
16	95	90	90	89	90	93	94	87	88	81	88	84
17	94	90	90	89	89	93	91	87	88	81	87	84
18	94	90	90	89	90	93	93	88	89	81	87	84
19	93	90	90	88	89	93	93	87	91	81	87	84
20	91	90	90	88	89	93	93	85	90	81	87	84
21	91	90	90	89	89	93	93	86	90	81	87	85
22	93	90	91	89	89	93	93	87	89	80	85	85
23	91	90	91	88	89	93	93	87	91	80	83	85
24	90	89	91	89	89	93	87	87	91	79	83	85
25	90	89	90	89	89	93	76	87	89	77	85	80
26	90	89	90	89	89	93	75	87	88	78	86	80
27	90	90	90	89	89	93	76	87	88	79	86	81
28	90	90	90	89	90	94	78	87	88	80	86	80
29	89	90	91	90	------	94	79	87	86	80	85	80
30	89	89	91	91	------	94	80	87	83	81	84	80
31	89	------	91	91	------	94	------	87	------	77	81	------
TOTAL	2,916	2,678	2,792	2,773	2,519	2,864	2,689	2,618	2,623	2,497	2,600	2,538
MEAN	94.1	89.3	90.1	89.5	90.0	92.4	89.6	84.5	87.4	80.5	83.9	84.6
MAX	111	90	91	91	91	94	94	88	91	87	88	94
MIN	89	87	89	88	89	90	75	57	83	77	78	80
AC-FT	5,780	5,310	5,540	5,500	5,000	5,680	5,330	5,190	5,200	4,950	5,160	5,030

CAL YR 1973 TOTAL 32,002 MEAN 87.7 MAX 135 MIN 37 AC-FT 63,480
WTR YR 1974 TOTAL 32,107 MEAN 88.0 MAX 111 MIN 57 AC-FT 63,680

10390000 SILVER CREEK NEAR SILVER LAKE, OREG.

LOCATION.--Lat 43°06'40", long 121°04'05", in SW¼ sec.28, T.28 S., R.14 E., Lake County, on right bank 1.5 mi (2.4 km) downstream from diversion dam of Silver Lake Irrigation District, 1.5 mi (2.4 km) southwest of town of Silver Lake, and 3 mi (5 km) upstream from Bridge Creek.

DRAINAGE AREA.--180 mi^2 (466 km^2), approximately.

PERIOD OF RECORD.--January 1905 to March 1907, January 1909 to September 1927, February to December 1928, February 1929 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 15, 1932. Datum of gage is 4,361.22 ft (1,329.300 m) above mean sea level. Prior to May 24, 1932, nonrecording gage or water-stage recorder at practically same location at datum 1.00 ft (0.305 m) higher, or nonrecording gage at diversion dam outlet 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--62 years (1905-6, 1909-27, 1929-41, 1943-74), 30.1 ft^3/s (0.852 m^3/s), 21,810 acre-ft/yr (26.9 hm^3/yr), including diversion by Silver Lake Irrigation District Canal.

EXTREMES.--Current year: Maximum discharge, 792 ft^3/s (22.4 m^3/s) Mar. 30; minimum daily, 3.5 ft^3/s (0.099 m^3/s) Oct. 19-21.
Period of record: Maximum discharge, 1,800 ft^3/s (51.0 m^3/s) Mar. 20, 1907, gage height. 10.08 ft (3.072 m), present datum, from rating curve extended above 700 ft^3/s (19.8 m^3/s); maximum gage height, 10.3 ft (3.139 m) Dec. 22, 1964; no flow at times in 1931-32, 1934, 1937.

REMARKS.--Records good. Flow regulated by reservoir, capacity, 800 acre-ft (986,000 m^3), above diversion dam 1.5 mi (2.4 km) above station and by Thompson Valley Reservoir, capacity, 17,400 acre-ft (21.5 hm^3), 11 mi (18 km) above station. Records given herein include flow in Silver Lake Irrigation District Canal which has diverted 1.5 mi (2.4 km) above station 1923-43, 1966-74.

REVISIONS (WATER YEARS).--WSP 1564: 1906, 1910, 1921(M). WSP 1734: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	3.6	42	5.4	26	17	483	227	85	62	48	24
2	16	3.6	22	5.2	23	16	400	264	84	56	48	28
3	9.4	3.6	17	5.2	22	13	308	277	83	53	48	30
4	6.4	3.6	12	5.0	21	13	256	280	85	52	56	32
5	5.9	3.9	12	4.8	20	15	253	285	82	52	60	34
6	5.5	4.2	13	4.8	18	18	236	306	84	50	59	32
7	5.3	3.9	28	4.8	17	16	207	330	83	49	58	32
8	5.2	4.2	25	4.8	17	14	191	364	77	47	57	33
9	5.0	5.7	17	4.8	17	13	180	366	70	50	53	37
10	5.0	6.7	13	4.8	17	15	162	330	69	51	52	37
11	5.8	8.1	15	4.8	17	16	158	281	74	51	55	27
12	6.4	72	14	5.5	17	19	155	247	75	52	56	26
13	5.9	44	12	7.0	16	23	154	222	75	54	55	27
14	5.4	24	12	20	16	24	153	196	80	55	55	27
15	4.7	23	12	145	16	47	160	172	81	56	55	27
16	4.2	31	16	274	16	85	176	157	82	55	48	27
17	3.8	25	33	134	15	119	193	148	80	56	43	27
18	3.7	19	30	312	15	186	217	139	80	56	37	27
19	3.5	11	17	177	15	233	218	129	81	55	35	27
20	3.5	11	16	97	14	253	213	117	80	42	35	29
21	3.5	11	17	61	13	239	216	104	76	42	32	31
22	4.2	10	16	63	13	230	235	96	76	51	31	31
23	4.8	8.8	14	50	12	220	261	89	75	50	30	30
24	5.6	9.2	13	41	12	215	270	84	74	49	30	27
25	6.3	9.2	13	38	13	223	260	87	72	49	30	27
26	5.8	8.1	10	33	14	229	231	98	70	49	28	27
27	5.4	8.5	11	31	14	241	210	111	65	49	23	26
28	4.9	10	13	29	14	266	191	115	61	49	23	26
29	4.4	21	14	29	------	319	186	110	61	48	24	26
30	4.2	49	10	28	------	673	196	94	62	47	24	23
31	3.7	------	6.0	27	------	557	------	91	------	47	26	------
TOTAL	184.4	455.9	515.0	1,655.9	460	4,567	6,729	5,921	2,282	1,584	1,314	864
MEAN	5.95	15.2	16.6	53.4	16.4	147	224	191	76.1	51.1	42.4	28.8
MAX	21	72	42	312	26	673	483	366	85	62	60	37
MIN	3.5	3.6	6.0	4.8	12	13	153	84	61	42	23	23
AC-FT	366	904	1,020	3,280	912	9,060	13,350	11,740	4,530	3,140	2,610	1,710

CAL YR 1973 TOTAL 8,761.0 MEAN 24.0 MAX 72 MIN 1.2 AC-FT 17,380
WTR YR 1974 TOTAL 26,532.2 MEAN 72.7 MAX 673 MIN 3.5 AC-FT 52,630

10393500 SILVIES RIVER NEAR BURNS, OREG.

LOCATION.--Lat 43°42'35", long 119°10'35", in NW¼NW¼ sec.31, T.21 S., R.30 E., Harney County, on left bank 5 mi (8 km) downstream from Emigrant Creek and 11 mi (18 km) northwest of Burns.

DRAINAGE AREA.--934 mi^2 (2,419 km^2).

PERIOD OF RECORD.--May 1903 to July 1906, December 1908 to December 1912, March 1913 to September 1917 (irrigation seasons only), March 1918 to October 1920, March 1921 to July 1922 (irrigation seasons only), October 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,195 ft (1,279 m) above mean sea level (river-profile survey). See WSP 1734 for history of changes prior to Oct. 4, 1951.

AVERAGE DISCHARGE.--61 years (1903-5, 1909-12, 1917-21, 1922-74), 166 ft^3/s (4.70 m^3/s), 120,300 acre-ft/yr (148 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,180 ft^3/s (61.7 m^3/s) Mar. 31, gage height, 13.09 ft (3.990 m); minimum, 6.4 ft^3/s (0.181 m^3/s) Oct. 1-3.

Period of record: Maximum discharge, 4,960 ft^3/s (140 m^3/s) Apr. 6, 1952, gage height, 15.2 ft (4.63 m); no flow July 19 to Sept. 22, 1934.

REMARKS.--Records good. No regulation. Diversions for irrigation above station during periods of high flow only.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	15	164	105	389	201	2,060	1,260	343	63	23	14
2	6.4	18	150	98	371	244	2,000	1,270	324	60	23	13
3	7.2	14	161	92	340	213	1,770	1,250	305	56	23	13
4	7.2	15	144	88	336	188	1,550	1,240	291	53	21	13
5	7.2	21	146	88	321	193	1,330	1,230	289	51	21	12
6	7.2	24	143	88	300	247	1,220	1,220	256	53	33	12
7	7.6	29	158	88	285	192	1,120	1,220	272	57	30	12
8	8.0	44	199	86	270	162	1,080	1,200	281	60	25	12
9	8.0	50	162	84	262	151	1,110	1,180	281	75	21	12
10	8.0	55	165	82	248	163	1,090	1,130	265	70	21	11
11	8.0	82	177	86	242	191	1,080	1,070	241	65	20	11
12	8.4	120	166	96	225	250	1,140	1,010	222	69	19	11
13	8.4	134	136	105	219	298	1,150	956	207	64	18	11
14	8.4	112	136	130	208	251	1,130	874	190	57	18	12
15	8.4	104	131	290	205	393	1,190	804	174	49	18	12
16	8.4	88	133	718	218	769	1,230	704	164	47	18	12
17	8.4	94	142	928	225	1,120	1,280	664	159	44	17	12
18	8.4	87	158	930	202	1,120	1,390	673	159	42	16	12
19	8.4	74	128	1,100	188	1,090	1,620	700	158	40	16	12
20	8.8	57	153	1,130	172	1,220	1,580	689	156	37	17	11
21	9.6	63	166	912	172	1,170	1,600	673	158	36	18	12
22	11	55	178	798	161	1,060	1,620	644	154	33	17	12
23	11	51	162	749	141	1,040	1,590	583	145	32	16	12
24	12	60	142	666	148	1,040	1,630	522	133	30	16	12
25	14	68	124	626	164	1,110	1,680	480	121	28	16	12
26	13	63	111	587	171	1,160	1,680	444	110	27	15	12
27	12	57	130	522	171	1,190	1,600	423	97	25	15	13
28	12	60	164	500	172	1,270	1,400	404	75	25	15	14
29	12	63	148	462	------	1,250	1,290	390	76	25	15	14
30	15	86	135	426	------	1,680	1,250	378	71	23	14	14
31	15	------	120	391	------	2,110	------	359	------	23	14	------
TOTAL	293.8	1,863	4,632	13,051	6,526	22,736	42,460	25,644	5,879	1,419	589	367
MEAN	9.48	62.1	149	421	233	733	1,415	827	196	45.8	19.0	12.2
MAX	15	134	199	1,130	389	2,110	2,060	1,270	343	75	33	14
MIN	6.4	14	111	82	141	151	1,080	359	71	23	14	11
AC-FT	583	3,700	9,190	25,890	12,940	45,100	84,220	50,860	11,660	2,810	1,170	728

CAL YR 1973 TOTAL 28,861.4 MEAN 79.1 MAX 554 MIN 2.8 AC-FT 57,250
WTR YR 1974 TOTAL 125,459.8 MEAN 344 MAX 2,110 MIN 6.4 AC-FT 248,800

10395000 EAST FORK SILVIES RIVER NEAR LAWEN, OREG.

LOCATION.--Lat 43°25'35", long 118°48'05", in SW¼ sec.5, T.24 S., R.32 E., Harney County, on left bank downstream side of road bridge, 1.6 mi (2.6 km) south of Lawen, and 15.2 mi (24.5 km) southeast of Burns.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March to June 1916, March 1972 to current year.

GAGE.--Water-stage recorder and deflection-meter recorder. Altitude of gage is 4,090 ft (1,250 m) from topographic map. Mar. 31 to June 15, 1916, nonrecording gage.

EXTREMES.--Current year: Maximum daily discharge, 163 ft³/s (4.62 m³/s) Apr. 27, 28; no flow Oct. 1 to Nov. 21, July 24 to Sept. 30. Period of record: Maximum discharge observed, 272 ft³/s (7.70 m³/s) Apr. 21, 1916, gage height, 2.30 ft (0.701 m); no flow for long periods each year.

REMARKS.--Records fair. West Fork (see station 10395500) and East Fork Silvies River are distributaries that originate at bifurcation of Silvies River 20 mi (32 km) upstream. Diversions primarily by flooding for irrigation of many thousand acres above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	10	13	22	25	70	132	24	1.9		
2		0	12	12	20	16	85	126	23	1.8		
3		0	12	10	19	10	95	128	22	1.7		
4		0	13	9.0	18	11	105	125	22	1.6		
5		0	13	8.0	18	16	120	124	21	1.4		
6		0	14	8.0	18	24	160	121	21	1.3		
7		0	16	8.0	18	30	155	110	20	1.2		
8		0	18	8.0	18	32	150	100	20	1.1		
9		0	20	8.0	18	32	145	101	18	1.0		
10		0	19	9.0	18	35	142	100	16	.90		
11		0	18	9.0	18	37	140	83	14	.80		
12		0	17	9.0	18	38	123	95	12	.70		
13		0	17	10	18	40	112	93	10	.70		
14		0	16	10	18	42	99	92	8.0	.60		
15		0	16	11	24	44	100	91	7.0	.60		
16		0	16	11	25	44	100	83	6.0	.50		
17		0	15	25	25	42	98	80	5.0	.50		
18		0	15	40	26	40	109	80	4.2	.50		
19		0	15	45	23	40	112	84	3.9	0		
20		0	15	50	24	40	97	81	3.5	0		
21		0	14	45	28	42	98	80	3.4	0		
22		1.0	14	40	27	42	93	77	3.0	0		
23		2.0	14	35	25	40	112	71	2.8	0		
24		3.0	14	30	23	38	118	67	2.7	0		
25		4.0	14	26	22	38	133	64	2.9	0		
26		5.0	13	22	24	40	154	60	2.4	0		
27		6.0	13	20	22	48	163	55	2.2	0		
28		7.0	13	21	26	52	163	48	2.1	0		
29		8.0	12	23	------	58	153	39	2.0	0		
30		9.0	12	23	------	64	136	30	1.8	0		
31		------	12	24	------	66	------	26	------	0		------
TOTAL	0	45.0	452	622.0	603	1,166	3,640	2,646	305.9	18.80	0	0
MEAN	0	1.50	14.6	20.1	21.5	37.6	121	85.4	10.2	.61	0	0
MAX	0	9.0	20	50	28	66	163	132	24	1.9	0	0
MIN	0	0	10	8.0	18	10	70	26	1.8	0	0	0
AC-FT	0	89	897	1,230	1,200	2,310	7,220	5,250	607	37	0	0

CAL YR 1973 TOTAL 894.78 MEAN 2.45 MAX 20 MIN 0 AC-FT 1,770
WTR YR 1974 TOTAL 9,498.70 MEAN 26.0 MAX 163 MIN 0 AC-FT 18,840

10393500 WEST FORK SILVIES RIVER NEAR LAWEN, OREG.

LOCATION.—Lat 43°23'00", long 118°50'03", in SE¼SW¼ sec.24, T.25 S., R.32 E., Harney County, near right bank on upstream side of bridge on county road, 4.9 mi (7.9 km) southwest of Lawen.

DRAINAGE AREA.—Indeterminate.

PERIOD OF RECORD.—March to July 1916, April to July 1917, April to June 1919, April to June 1922, March 1972 to current year.

GAGE.—Water-stage recorder and deflection-meter recorder. Altitude of gage is 4,090 ft (1,250 m), from topographic map. Prior to Mar. 4, 1972, nonrecording gage at same site at different datum.

EXTREMES.—Current year: Maximum daily discharge, 396 ft³/s (11.2 m³/s) May 2, 3; maximum gage height, 5.91 ft (1.801 m) May 1; no flow Oct. 1 to Mar. 27, June 23 to Sept. 30.

Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) Apr. 16-18, 1916, May 18-20, 1917, gage height, 9.7 ft (2.96 m), datum then in use; no flow for long periods each year.

REMARKS.—Records poor. East Fork (see station 10393000) and West Fork Silvies River are distributaries that originate at bifurcation of Silvies River 20 mi (32 km) upstream. Diversions primarily by flooding for irrigation of many thousand acres above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	80	383	60			
2						0	100	396	56			
3						0	120	396	56			
4						0	140	385	52			
5						0	160	372	52			
6						0	180	354	52			
7						0	200	333	49			
8						0	220	281	45			
9						0	240	280	42			
10						0	250	280	41			
11						0	256	275	38			
12						0	249	270	34			
13						0	250	265	33			
14						0	243	260	30			
15						0	232	255	25			
16						0	224	250	22			
17						0	203	245	10			
18						0	195	240	5.0			
19						0	195	235	4.0			
20						0	198	230	3.0			
21						0	199	228	2.0			
22						0	200	217	1.0			
23						0	241	212	0			
24						0	269	205	0			
25						0	286	190	0			
26						0	315	163	0			
27						0	319	142	0			
28						5.0	319	121	0			
29					------	20	320	101	0			
30					------	40	324	77	0			
31		------			------	60	------	60	------			------
TOTAL	0	0	0	0	0	125.0	6,727	7,701	712.0	0	0	0
MEAN	0	0	0	0	0	4.03	224	248	23.7	0	0	0
MAX	0	0	0	0	0	60	324	396	60	0	0	0
MIN	0	0	0	0	0	0	80	60	0	0	0	0
AC-FT	0	0	0	0	0	248	13,340	15,270	1,410	0	0	0

CAL YR 1973 TOTAL 78.10 MEAN .21 MAX 1.5 MIN 0 AC-FT 155

WTR YR 1974 TOTAL 15,265.00 MEAN 41.8 MAX 396 MIN 0 AC-FT 30,280

10396000 DONNER UND BLITZEN RIVER NEAR FRENCHGLEN, OREG.

LOCATION.--Lat 42°47'28", long 118°52'00", in NW¼NW¼ sec.20, T.32 S., R.32½ E., Harney County, Bureau of Land Management land, on left bank 1.5 mi (2.4 km) upstream from upper diversions for Malheur Migratory Waterfowl Refuge, 2.0 mi (3.2 km) downstream from Fish Creek, and 3.5 mi (5.6 km) southeast of Frenchglen.

DRAINAGE AREA.--200 mi² (518 km²), approximately.

PERIOD OF RECORD.--March 1911 to September 1913, March 1914 to September 1916, April 1917 to September 1921, August to November 1929, April to September 1930, December 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Diamond" 1911-21. Records of discharge for January 1909 to September 1910 (published in WSP 270, 290, and 370, for a nonequivalent site as "near Diamond") have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,234 ft (1,297 m) above mean sea level (levels by Fish and Wildlife Service). Prior to December 1937, nonrecording gage at several sites within 2 mi (3 km) downstream at different datums. Dec. 6, 1937, to Feb. 14, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--44 years (1911-13, 1914-16, 1917-21, 1938-74), 119 ft³/s (3.37 m³/s), 86,220 acre-ft/yr (106 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,920 ft³/s (54.4 m³/s) Mar. 14, gage height, 5.50 ft (1.676 m); minimum, 5.6 ft³/s (0.16 m³/s) Jan. 2, result of freezeup.
Period of record: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Feb. 28, 1972, gage height, 6.36 ft (1.939 m); minimum, 4.2 ft³/s (0.12 m³/s) Dec. 9, 1972, result of freezeup.

REMARKS.--Records excellent. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 330: Drainage area (former site). WSP 860: Drainage area (present site). WSP 1564: 1938-39(M), 1942-43(M), 1948(M), 1951(P), 1952-53. WSP 1714: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	44	64	19	52	68	188	298	386	143	58	35
2	34	34	44	15	48	66	185	322	406	135	58	35
3	34	35	50	15	53	56	172	314	434	117	55	35
4	34	51	49	14	51	48	164	331	419	113	52	35
5	34	38	47	14	47	49	194	364	490	118	53	35
6	34	38	48	13	38	65	155	416	412	115	55	35
7	40	43	53	14	48	62	133	473	357	113	53	34
8	39	68	69	11	54	53	130	566	296	129	50	35
9	36	58	45	17	53	43	134	593	293	149	49	35
10	35	74	49	18	50	54	132	497	309	128	47	35
11	36	80	50	13	49	89	156	450	334	115	46	35
12	36	104	44	20	45	259	151	453	363	99	46	35
13	35	78	44	35	45	215	125	353	370	96	44	37
14	36	68	46	65	46	694	122	310	343	95	44	34
15	35	65	45	575	44	926	130	287	331	93	44	34
16	34	62	46	229	47	441	136	259	313	89	42	34
17	33	64	48	165	45	345	169	238	316	85	42	34
18	33	63	50	96	47	268	234	228	305	83	41	33
19	33	49	37	123	45	213	248	209	281	83	41	33
20	35	56	52	89	43	183	198	194	244	79	44	33
21	39	54	46	65	46	154	204	185	227	76	42	33
22	36	50	46	74	41	153	253	182	234	74	41	33
23	38	45	45	69	37	148	275	202	220	70	41	33
24	40	46	39	63	49	148	261	243	206	67	41	33
25	41	49	45	63	49	168	226	316	183	65	38	33
26	37	49	33	56	45	155	200	452	167	62	38	32
27	38	51	55	59	47	170	187	547	153	58	37	32
28	39	52	48	58	48	152	176	535	156	61	35	33
29	40	54	55	54	------	144	178	472	147	59	35	33
30	38	91	46	56	------	178	221	412	148	59	35	33
31	39	------	32	55	------	150	------	383	------	56	35	------
TOTAL	1,126	1,713	1,470	2,232	1,312	5,917	5,437	11,084	8,843	2,884	1,382	1,019
MEAN	36.3	57.1	47.4	72.0	46.9	191	181	358	295	93.0	44.6	34.0
MAX	41	104	69	575	54	926	275	593	490	149	58	37
MIN	33	34	32	11	37	43	122	182	147	56	35	32
AC-FT	2,230	3,400	2,920	4,430	2,600	11,740	10,780	21,990	17,540	5,720	2,740	2,020

CAL YR 1973 TOTAL 32,717 MEAN 89.6 MAX 612 MIN 25 AC-FT 64,890
WTR YR 1974 TOTAL 44,419 MEAN 122 MAX 926 MIN 11 AC-FT 88,110

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-15	0330	4.08	826	5- 8	2400	3.89	704
3-14	2000	5.50	1,920	5-28	0030	3.80	650

10401500 DONNER UND BLITZEN RIVER NEAR VOLTAGE, OREG.

LOCATION.--Lat 43°15'05", 118°50'42", in SW¼ sec.2, T.27 S., R.31 E., Harney County, in Malheur National Wildlife Refuge on right bank just downstream from Sodhouse diversion dam, 1.2 mi (1.9 km) southwest of refuge headquarters, and 2.8 mi (4.5 km) southwest of Voltage.

DRAINAGE AREA.--760 mi^2 (1,970 km^2), approximately.

PERIOD OF RECORD.--February 1938 to September 1946, March 1972 to current year. Records for April 1916 to June 1919, published in WSP 440, 480, and 510, and March 1921 to June 1922, published in WSP 530 and 550, at site 1.5 mi (2.4 km) downstream, including diversions and overflow through 16 culverts crossing Sodhouse Lane, have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 4,096.58 ft (1,248.638 m) above mean sea level (levels by Fish and Wildlife Service). Prior to June 16, 1939, nonrecording gage at site 30 ft (9 m) downstream, and Mar. 2 to Sept. 30, 1972, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--7 years (1938-43, 1972-74), 85.8 ft^3/s (2.43 m^3/s), 62,160 acre-ft/yr (76.6 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 554 ft^3/s (15.7 m^3/s) Jan. 17, gage height, 5.68 ft (1.731 m); minimum, 6.6 ft^3/s (0.19 m^3/s) Nov. 21.

Period of record: Maximum discharge, 653 ft^3/s (18.5 m^3/s) Mar. 5, 1972, gage height, 6.30 ft (1.920 m), present datum; maximum gage height, 7.26 ft (2.212 m) Jan. 30, 1942, present datum; little or no flow at times June to August 1918 at site 1.5 mi (2.4 km) downstream.

REMARKS.--Records good. Some regulation by diversion dams. Many diversions above station for irrigation of lands above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	52	41	25	70	12	64	32	209	14	16	20
2	43	35	50	17	60	11	67	50	165	15	15	24
3	43	33	61	15	45	12	89	69	176	15	15	34
4	44	27	62	14	45	12	78	82	187	21	14	39
5	17	32	62	13	39	12	66	115	191	26	14	40
6	19	34	76	13	50	12	67	104	204	19	23	40
7	23	17	81	13	53	14	84	109	243	21	21	39
8	23	46	89	13	42	17	56	199	261	24	19	37
9	27	36	98	13	42	17	44	246	187	22	16	36
10	33	65	81	13	44	17	36	269	167	76	14	36
11	81	66	69	15	42	17	33	279	160	97	14	36
12	71	77	77	25	41	16	32	277	158	75	14	37
13	48	100	72	45	26	59	31	277	151	37	14	38
14	47	100	69	100	14	171	31	271	154	48	13	40
15	54	91	73	146	11	301	30	198	120	52	13	41
16	43	51	69	344	20	449	29	149	70	43	13	39
17	46	45	65	417	18	407	22	148	94	44	13	38
18	47	40	66	243	16	335	18	151	91	48	13	34
19	43	35	89	145	13	261	35	113	92	38	13	32
20	42	32	91	142	12	197	75	80	90	33	16	31
21	44	31	95	109	12	106	77	81	83	30	14	31
22	48	30	85	90	12	89	35	81	74	28	14	31
23	52	28	84	103	35	83	16	63	40	26	13	31
24	55	26	80	101	18	84	40	48	21	24	13	31
25	56	25	72	94	16	72	47	50	19	22	13	30
26	54	25	66	91	14	65	45	59	20	21	12	31
27	56	25	85	85	14	75	39	75	18	20	12	31
28	54	26	100	80	12	69	39	142	16	19	13	31
29	54	30	96	77	------	75	34	204	15	18	13	31
30	57	34	89	77	------	62	31	207	14	17	15	31
31	56	------	77	69	------	59	------	223	------	17	19	------
TOTAL	1,424	1,294	2,370	2,747	836	3,188	1,390	4,451	3,490	1,010	454	1,020
MEAN	45.9	43.1	76.5	88.6	29.9	103	46.3	144	116	32.6	14.6	34.0
MAX	81	100	100	417	70	449	89	279	261	97	23	41
MIN	17	17	41	13	11	11	16	32	14	14	12	20
AC-FT	2,820	2,570	4,700	5,450	1,660	6,320	2,760	8,830	6,920	2,000	901	2,020

CAL YR 1973 TOTAL 16,400.4 MEAN 44.9 MAX 340 MIN 9.4 AC-FT 32,530
WTR YR 1974 TOTAL 23,674.0 MEAN 64.9 MAX 449 MIN 11 AC-FT 46,960

NOTE.--No gage-height record July 22 to Aug. 29.

10402000 MALHEUR LAKE OUTLET AT NARROWS, OREG.

LOCATION.--Lat 43°16'55", long 118°57'50", in SE¼ sec.26, T.26 S., R.31 E., Harney County, on highway bridge at The Narrows.

DRAINAGE AREA.--2,150 mi^3 (5,570 km^3), approximately.

PERIOD OF RECORD.--May 1903 to July 1906, September 1909, March to September 1911, April to June 1912, April to August 1913, June 1914, gage heights only. March to July 1916, March 1972 to current year.

GAGE.--Water-stage recorder and deflection-meter recorder. Datum of gage is 4,089.36 ft (1,246.437 m) above mean sea level. Prior to March 1972 nonrecording gage at same site at datum 0.50 ft (0.152 m) lower.

EXTREMES.--Current year: Maximum daily discharge, 16 ft^3/s (0.453 m^3/s) June 16-23; maximum gage height, 3.10 ft (0.945 m) June 17; no flow Oct. 1 to May 26, July 18 to Sept. 30.

Period of record: Maximum daily discharge, 242 ft^3/s (6.85 m^3/s) Apr. 23, 1972; no flow for long periods each year.

Maximum stage observed, 6.4 ft (1.95 m) May 12-16, 1904 (datum then in use, discharge not determined). A discharge of 841 ft^3/s (23.8 m^3/s) was measured May 5, 1943, gage height, 6.16 ft (1.878 m).

REMARKS.--Records poor. Natural storage in Malheur Lake. Diversions for irrigation of thousands of acres above station. Outflow from Malheur Lake flows into Mud Lake and Mud Lake when full spills over a sand reef, or is drained, into Harney Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	6.0	9.0		
2								0	7.0	9.0		
3								0	8.0	9.0		
4								0	9.0	8.0		
5								0	10	8.0		
6								0	11	7.0		
7								0	11	7.0		
8								0	12	7.0		
9								0	12	7.0		
10								0	13	7.0		
11								0	14	7.0		
12								0	15	7.0		
13								0	15	6.0		
14								0	15	5.0		
15								0	15	4.0		
16								0	16	3.0		
17								0	16	2.0		
18								0	16	0		
19								0	16	0		
20								0	16	0		
21								0	16	0		
22								0	16	0		
23								0	16	0		
24								0	15	0		
25								0	15	0		
26								0	15	0		
27								.50	14	0		
28								1.5	13	0		
29					------			2.0	12	0		
30					------			3.0	10	0		
31		------			------		------	5.0	------	0		------
TOTAL	0	0	0	0	0	0	0	12.00	395.0	112.0	0	0
MEAN	0	0	0	0	0	0	0	.39	13.2	3.61	0	0
MAX	0	0	0	0	0	0	0	5.0	16	9.0	0	0
MIN	0	0	0	0	0	0	0	0	6.0	0	0	0
AC-FT	0	0	0	0	0	0	0	24	783	222	0	0

CAL YR 1973 TOTAL 1,776.00 MEAN 4.87 MAX 30 MIN 0 AC-FT 3,520
WTR YR 1974 TOTAL 519.00 MEAN 1.42 MAX 16 MIN 0 AC-FT 1,030

10403000 SILVER CREEK NEAR RILEY, OREG.

LOCATION.--Lat 43°41'30", long 119°39'30", in E½ sec.1, T.22 S., R.25 E., Harney County, on right bank 0.4 mi (0.6 km) downstream from Rough Creek, 1.4 mi (2.3 km) upstream from Nicoll Creek, and 14 mi (23 km) northwest of Riley.

DRAINAGE AREA.--228 mi^2 (591 km^2).

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,450 ft (1,360 m), by barometer.

AVERAGE DISCHARGE.--23 years, 42.4 ft^3/s (1.20 m^3/s), 30,720 acre-ft/yr (37.9 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) Mar. 15, gage height, 6.47 ft (1.972 m); minimum, 1.3 ft^3/s (0.368 m^3/s) Oct. 1, 2, Sept. 25-27.
Period of record: Maximum discharge, 1,810 ft^3/s (51.3 m^3/s) Dec. 22, 1964, gage height, 7.49 ft (2.283 m); no flow at times.

REMARKS.--Records good. No regulation. Diversions for irrigation above station.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SFPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.5	21	20	46	32	598	189	25	6.2	3.0	1.6
2	1.4	3.2	22	18	41	25	511	178	24	6.2	3.6	1.6
3	1.5	2.7	23	20	39	20	400	166	22	6.2	3.2	1.6
4	1.6	3.3	25	17	36	22	332	152	22	6.2	2.8	1.6
5	1.7	3.6	25	18	33	30	300	141	24	6.2	2.9	1.6
6	1.8	4.8	39	18	28	32	276	134	23	6.8	3.0	1.5
7	1.8	5.7	39	17	37	21	241	124	21	7.8	2.9	1.5
8	1.8	8.6	36	16	35	21	262	116	19	8.2	2.7	1.5
9	1.9	8.9	33	16	37	19	302	105	18	10	2.6	1.5
10	1.9	13	28	16	37	19	288	97	17	10	2.6	1.5
11	2.2	14	29	19	35	25	298	87	16	11	2.5	1.5
12	2.1	15	26	28	31	36	324	80	15	9.6	2.4	1.5
13	2.0	9.3	27	39	27	30	312	74	14	7.5	2.4	1.6
14	1.9	8.2	26	60	24	29	316	71	13	6.2	2.5	1.5
15	2.0	7.8	30	90	24	370	340	69	12	5.9	2.6	1.5
16	2.0	9.3	37	178	25	415	365	63	11	5.4	2.5	1.5
17	1.9	10	27	152	24	346	373	62	11	5.2	2.2	1.5
18	2.0	9.3	36	133	24	278	430	61	10	5.0	2.2	1.5
19	2.0	6.8	48	158	23	294	424	60	9.3	4.8	2.3	1.5
20	2.4	10	54	113	23	276	356	55	10	4.8	2.6	1.5
21	2.6	10	42	90	21	262	322	49	11	4.6	2.7	1.4
22	2.8	9.4	33	94	19	276	316	45	10	3.9	2.3	1.4
23	3.0	8.4	40	87	19	292	310	41	9.3	3.6	2.3	1.4
24	3.2	7.8	29	76	26	304	312	39	8.9	3.5	2.1	1.4
25	3.2	10	46	72	22	365	268	38	8.2	3.3	2.0	1.4
26	2.9	8.9	43	64	23	373	235	34	7.8	3.2	1.9	1.4
27	4.3	9.3	33	60	21	442	215	32	7.8	3.0	1.8	1.4
28	3.2	10	32	57	25	415	201	30	7.5	3.0	1.6	1.6
29	3.8	13	32	51	------	376	186	29	7.1	3.0	1.6	1.6
30	3.5	19	24	49	------	774	184	27	6.8	3.5	1.6	1.7
31	3.2	------	22	48	------	685	------	26	------	3.2	1.6	------
TOTAL	73.0	262.8	1,007	1,894	805	6,904	9,597	2,474	420.7	177.0	75.0	45.3
MEAN	2.35	8.76	32.5	61.1	28.8	223	320	79.8	14.0	5.71	2.42	1.51
MAX	4.3	19	54	178	46	774	598	189	25	11	3.6	1.7
MIN	1.4	2.7	21	16	19	19	184	26	6.8	3.0	1.6	1.4
AC-FT	145	521	2,000	3,760	1,600	13,690	19,040	4,910	834	351	149	90

CAL YR 1973 TOTAL 6,232.69 MEAN 17.1 MAX 120 MIN .26 AC-FT 12,360
WTR YR 1974 TOTAL 23,734.80 MEAN 65.0 MAX 774 MIN 1.4 AC-FT 47,080

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3-15	2130	6.47	1,280	4-18	2300	4.17	481
3-30	1030	5.58	920				

10406500 TROUT CREEK NEAR DENIO, NEV.

LOCATION.--Lat 42°09'20", long 118°27'30", in SW¼ sec.26, T.39 S., R.36 E., Harney County, on right bank 0.4 mi (0.6 km) upstream from bridge at mouth of canyon, 5 mi (8 km) east of Trout Creek Ranch, and 14 mi (23 km) northeast of Denio.

DRAINAGE AREA.--88 mi^2 (228 km^2), approximately.

PERIOD OF RECORD.--March 1911 to March 1912, April 1922 to November 1923, March 1925 to September 1931 (irrigation seasons only), April 1932 to current year. Prior to Oct. 1, 1961, published as "near Denio, Oreg."

GAGE.--Water-stage recorder. Datum of gage is 4,351.52 ft (1,326.343 m) above mean sea level. Mar. 25, 1911, to Mar. 31, 1912, nonrecording gage at bridge 0.4 mi (0.6 km) downstream at different datum. Apr. 28, 1922, to June 14, 1932, water-stage recorder at site 10 ft (3 m) upstream at datum 0.50 ft (0.152 m) higher.

AVERAGE DISCHARGE.--43 years (1922-23, 1932-74), 15.3 ft^3/s (0.433 m^3/s), 11,080 acre-ft/yr (13.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 144 ft^3/s (4.08 m^3/s) May 9, gage height, 3.47 ft (1.058 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) Aug. 18.

Period of record: Maximum discharge, 470 ft^3/s (13.3 m^3/s) Aug. 1, 1933, gage height, 5.26 ft (1.603 m), from rating curve extended above 230 ft^3/s (6.51 m^3/s); minimum observed, 0.10 ft^3/s (0.030 m^3/s) Aug. 4, 1930, Aug. 1, Sept. 12, 28, 1934. Probably no flow at times Sept. 1-19, 1931.

Maximum stage, 6.0 ft (1.83 m), caused by cloudburst, probably occurred in 1924 or 1925.

REMARKS.--Records good except those for winter periods, which are fair. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1564: 1932, 1933-34(M), 1938(M). WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.1	10	6.8	12	9.2	51	42	58	13	5.7	4.2
2	5.1	5.3	9.5	6.3	12	8.0	48	56	57	13	5.7	4.2
3	5.1	5.7	9.2	6.0	12	7.5	45	56	53	13	5.5	4.4
4	5.3	5.7	9.5	6.0	11	8.2	39	55	53	13	5.5	4.1
5	5.1	6.7	9.2	6.0	9.5	11	38	73	51	14	5.5	4.2
6	5.1	6.5	8.9	6.0	8.2	9.5	36	80	44	15	5.9	4.2
7	7.3	7.5	8.9	6.0	8.2	8.2	36	85	44	15	6.1	4.1
8	6.7	14	8.9	6.6	9.0	7.6	37	101	43	16	5.7	3.9
9	6.1	9.5	7.0	6.6	9.0	7.6	38	134	37	21	5.5	3.9
10	5.9	8.9	7.5	6.6	9.0	9.5	38	120	35	20	5.5	3.9
11	5.9	8.7	9.2	7.5	9.0	12	38	106	34	18	5.5	4.1
12	5.9	11	8.9	10	8.7	16	38	102	34	15	5.3	4.1
13	5.7	11	9.2	15	9.5	15	37	88	36	14	4.9	4.2
14	5.5	8.9	8.9	18	8.9	14	37	74	36	13	4.7	4.2
15	5.3	8.7	8.7	19	8.7	25	39	69	32	13	4.6	4.1
16	5.3	8.9	8.4	19	8.7	40	40	59	31	13	4.6	3.9
17	5.3	11	9.2	19	8.4	54	44	55	29	12	4.7	4.1
18	5.1	10	8.9	20	8.9	54	54	50	27	12	3.1	4.1
19	5.1	9.5	8.2	21	8.9	68	54	45	26	12	3.3	3.9
20	5.3	9.0	8.8	20	8.7	59	50	40	27	11	4.9	4.1
21	5.5	9.0	8.9	18	8.1	54	49	36	25	10	4.9	4.1
22	5.5	9.0	8.9	19	7.6	50	52	35	23	8.4	4.9	4.1
23	6.3	9.0	8.9	16	7.2	46	60	35	22	8.7	4.7	4.1
24	6.3	9.0	8.5	15	7.6	46	67	44	19	8.1	4.6	3.9
25	6.5	9.0	8.0	15	8.0	49	58	58	18	7.6	4.7	3.9
26	6.1	11	9.0	13	8.4	50	51	75	16	7.1	4.6	3.9
27	5.7	9.9	9.8	13	8.1	51	45	90	16	6.8	4.6	3.9
28	5.7	9.5	9.9	13	8.4	51	42	94	14	7.3	4.4	4.1
29	6.1	9.2	10	12	------	51	40	84	13	6.4	4.1	4.1
30	5.9	9.2	8.5	12	------	51	37	72	13	6.1	4.2	4.1
31	6.1	------	7.5	12	------	49	------	64	------	5.7	4.2	------
TOTAL	176.9	266.4	274.9	389.4	251.7	991.3	1,338	2,177	966	368.2	152.1	122.1
MEAN	5.71	8.88	8.87	12.6	8.99	32.0	44.6	70.2	32.2	11.9	4.91	4.07
MAX	7.3	14	10	21	12	68	67	134	58	21	6.1	4.4
MIN	5.1	5.3	7.0	6.0	7.2	7.5	36	35	13	5.7	3.1	3.9
AC-FT	351	528	545	772	499	1,970	2,650	4,320	1,920	730	302	242

CAL YR 1973 TOTAL 7,232.7 MEAN 19.8 MAX 151 MIN 3.6 AC-FT 14,350
WTR YR 1974 TOTAL 7,474.0 MEAN 20.5 MAX 134 MIN 3.1 AC-FT 14,820

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3-18	2200	2.91	73	5- 9	0730	3.47	144
4-24	0300	2.89	71	5-28	1100	3.16	102

GOOSE LAKE BASIN

11339500 DREWS CREEK NEAR LAKEVIEW, OREG.

LOCATION.--Lat 42°07'10", long 120°34'45", in NW¼NE¼ sec.10, T.40 S., R.18 E., Lake County, on left bank 10 ft (3 m) upstream from bridge, 2.0 mi (3.2 km) downstream from Willow Creek, 2.7 mi (4.3 km) downstream from Drews Dam, and 13 mi (21 km) southwest of Lakeview.

DRAINAGE AREA.--212 mi^2 (549 km^2).

PERIOD OF RECORD.--January 1909 to September 1930 (yearly estimate only for water year 1920), March 1931 to September 1936 (irrigation seasons only), April 1937 to September 1938, March 1939 to October 1941, February 1942, April 1942 to September 1952, bruary 1953 to current year. Monthly discharge only October 1921 to September 1925, published in WSP 1315-A. Published as ew Creek near Lakeview October 1918 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 4,827.0 ft (1,471.27 m) above mean sea level (levels by Bureau of Reclamation). See WSP 1931 for history of changes prior to July 4, 1953.

AVERAGE DISCHARGE.--43 years (1912-30, 1937-38, 1939-41, 1946-47, 1953-74), 73.3 ft^3/s (2.08 m^3/s), 53,110 acre-ft/yr (65.5 hm^3/yr), including diversion by North Drews Canal.

EXTREMES.--Current year: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Mar. 30 or 31, gage height, 5.08 ft (1.548 m), from high-water mark in well; minimum, 0.65 ft^3/s (0.018 m^3/s) Oct. 31.

Period of record: Maximum discharge, about 3,000 ft^3/s (85.0 m^3/s) Mar. 1, 2, 1910, from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); no flow at times.

REVISIONS.--The maximum discharge for the water year 1972 has been revised to 925 ft^3/s (26.2 m^3/s) Mar. 14, 1972, gage height, 4.71 ft (1.436 m), superseding figure published in WRD Oreg. 1972.

REMARKS.--Records good. Record herein, except average discharge, not adjusted for diversion by North Drews Canal. Since 1912, flow regulated by Drews Reservoir, capacity, 62,550 acre-ft (77.1 hm^3). Diversion for irrigation above station, and since March 1914, North Drews Canal has diverted above station for irrigation of lands west of Lakeview.

REVISIONS (WATER YEARS).--WSP 1565: 1909-10, 1913, 1918(M). WSP 1735: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.85	10	4.1	4.7	11	1,020	316	108	73	75	44
2	1.0	.85	4.7	3.9	5.0	10	935	307	110	68	79	44
3	.90	.95	3.5	3.7	4.7	8.2	811	305	115	66	78	44
4	.90	.85	2.6	3.6	4.4	6.6	703	294	108	66	78	46
5	.85	.90	2.4	3.5	4.4	7.0	661	288	98	66	79	49
6	.90	1.0	3.8	3.5	5.0	12	593	285	82	69	79	58
7	1.1	1.1	7.8	3.5	5.0	10	511	275	74	66	82	58
8	.90	1.3	5.1	3.5	4.7	8.2	469	269	71	60	71	57
9	.90	1.0	3.2	3.5	4.4	8.2	455	267	66	54	65	54
10	.90	1.2	2.4	3.5	4.1	7.8	410	251	61	44	64	53
11	.90	1.4	2.6	3.9	4.1	9.5	368	239	56	31	52	58
12	.90	7.4	2.6	5.0	4.1	13	344	229	60	13	53	50
13	.90	4.4	2.6	6.0	3.8	14	320	198	73	17	58	1.6
14	.90	2.9	2.6	20	3.8	27	308	185	77	22	65	1.2
15	.90	3.2	3.8	68	3.8	53	315	171	84	23	65	8.7
16	.90	3.5	7.0	59	4.1	56	318	155	86	33	65	27
17	.90	3.8	17	38	4.1	75	329	155	97	41	68	28
18	.90	4.7	6.2	34	4.4	41	374	149	100	42	68	42
19	.90	2.6	3.8	20	4.4	32	403	147	102	49	69	56
20	1.0	2.2	3.8	12	4.4	24	382	129	100	54	71	58
21	.95	2.0	5.8	8.2	4.4	23	382	135	98	54	74	59
22	.95	1.8	5.4	7.0	4.7	23	385	145	95	63	70	59
23	1.0	1.8	4.1	6.6	5.0	34	385	147	94	69	70	61
24	.95	1.8	3.8	5.8	5.0	69	389	155	88	69	64	63
25	.95	1.8	6.2	5.4	4.4	143	375	169	82	74	61	65
26	.90	1.7	3.2	5.4	5.4	236	364	171	75	75	63	65
27	.90	1.7	3.2	5.0	5.4	372	344	171	73	69	65	64
28	.90	4.1	7.4	5.8	6.2	458	326	85	75	66	65	61
29	.95	15	24	4.7	------	565	312	97	78	71	66	60
30	.95	11	8.6	4.7	------	1,000	313	103	75	78	63	49
31	.85	------	4.4	5.0	------	1,100	------	110	------	78	50	------
TOTAL	29.20	88.80	173.6	365.8	127.9	4,456.5	13,604	6,102	2,561	1,723	2,095	1,443.5
MEAN	.94	2.96	5.60	11.8	4.57	144	453	197	85.4	55.6	67.6	48.1
MAX	1.5	15	24	68	6.2	1,100	1,020	316	115	78	82	65
MIN	.85	.85	2.4	3.5	3.8	6.6	308	85	56	13	50	1.2
AC-FT	58	176	344	726	254	8,840	26,980	12,100	5,080	3,420	4,160	2,860
(†)	0	0	0	0	0	0	0	26.7	50.4	64.0	55.3	20.7
(‡)	a23,160	a26,640	a34,010	a47,480	a50,370	68,670	64,450	a60,410	a52,930	a44,150	a34,340	34,340

CAL YR 1973 TOTAL 9,923.90 MEAN 27.2 MAX 102 MIN .85 AC-FT 19,680
WTR YR 1974 TOTAL 32,770.30 MEAN 89.8 MAX 1,100 MIN .85 AC-FT 65,000

† Diversion, in acre-feet, North Drews Canal.
‡ Monthend contents in acre-feet, of Drews Reservoir.
a Contents interpolated.
NOTE.--No gage-height record Mar. 30-31.

11340500 COTTONWOOD CREEK NEAR LAKEVIEW, OREG.

LOCATION.--Lat 42°14'05", long 120°30'05", in N½ sec.32, T.38 S., R.19 E., Lake County, on right bank 0.7 mi (1.1 km) downstream from Cottonwood Dam and 9 mi (14 km) northwest of Lakeview.

DRAINAGE AREA.--32.9 mi² (85.2 km²).

PERIOD OF RECORD.--November 1908 to September 1919, May 1924 to November 1935, March to December 1936, April to December 1937, April 1938 to November 1942, March to November 1943, March to October 1944, February to November 1945, March 1946 to current year. Monthly discharge only May 1924 to September 1925, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 4,949.37 ft (1,508.568 m) above mean sea level (levels by Bureau of Reclamation). Prior to June 1, 1919, and May 1, 1924, to June 3, 1932, nonrecording gage at several sites within 0.6 mi (1.0 km) upstream at different datums. June 1 to Sept. 30, 1919, and June 4, 1932, to Sept. 14, 1961, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

AVERAGE DISCHARGE.--53 years (1909-19, 1924-35, 1938-42, 1946-74), 22.0 ft³/s (0.62 m³/s), 15,940 acre-ft/yr (19.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 186 ft³/s (5.27 m³/s) May 8, 9, gage height, 2.17 ft (0.661 m); maximum gage height, 2.25 ft (0.686 m) Mar. 30, momentary backwater; minimum discharge, 0.12 ft³/s (0.003 m³/s) Oct. 1, 2.

Period of record: Maximum discharge, between 500 and 1,000 ft³/s (14.2 and 28.3 m³/s) during period Apr. 26 to May 1, 1927, when natural flow, estimated as 170 ft³/s (4.81 m³/s), was augmented by water escaping from reservoir through break in outlet conduit near control gates; no flow at times.

REMARKS.--Records good except those below 10 ft³/s (0.28 m³/s), which are fair. Flow regulated since 1923 by Cottonwood Reservoir, capacity, 7,540 acre-ft (9.30 hm³). Since October 1961, 240 acre-ft (295,900 m³) unregulated storage in Cottonwood Meadows, 9 mi (14 km) upstream. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1565: 1910-11, 1919, 1929, 1937(M). WSP 1931: Drainage area (former site).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.41	.45	.45	1.6	1.8	154	100	105	68	50	44
2	.16	.44	.40	.39	1.6	1.9	130	120	110	68	50	44
3	.18	.47	.35	.38	1.6	1.9	100	125	110	65	50	44
4	.20	.50	.35	.36	1.6	1.9	77	125	110	65	46	42
5	.23	.57	.35	.33	1.6	2.1	77	130	110	65	44	38
6	.26	.64	.47	.33	1.6	2.2	68	146	105	68	42	38
7	.26	.71	1.1	.33	1.6	2.2	59	162	105	71	42	42
8	.29	.99	.57	.33	1.6	2.2	56	170	110	30	36	40
9	.29	.99	.44	.33	1.6	2.2	53	178	105	4.4	30	36
10	.29	1.1	.44	.33	1.5	2.2	48	170	115	3.9	29	34
11	.29	1.1	.47	.40	1.5	2.2	48	162	95	6.6	34	34
12	.29	.80	.44	.47	1.5	2.4	48	146	95	12	38	32
13	.29	.65	.44	.57	1.5	2.5	46	120	95	14	38	30
14	.32	.50	.44	1.4	1.4	2.7	44	110	95	14	32	30
15	.32	.55	.47	5.2	1.4	4.2	48	100	95	15	30	30
16	.32	.52	.57	6.4	1.5	5.2	53	90	95	15	30	29
17	.29	.40	1.2	3.4	1.5	8.4	62	85	95	16	30	26
18	.29	.25	.64	3.7	1.5	5.7	80	77	95	22	30	26
19	.32	.20	.50	3.7	1.5	4.4	80	71	95	28	30	25
20	.32	.20	.57	2.8	1.5	3.9	77	62	95	34	30	22
21	.35	.23	.71	2.2	1.5	3.7	80	62	110	34	32	18
22	.35	.26	.57	1.9	1.4	3.7	95	56	110	34	34	16
23	.38	.32	.57	1.8	1.4	3.7	100	62	105	34	36	13
24	.38	.32	.64	1.5	1.4	3.7	95	68	100	36	40	8.4
25	.38	.32	.71	1.5	1.4	3.7	85	74	100	38	42	3.1
26	.41	.26	.50	1.5	1.5	3.7	77	77	100	38	42	1.8
27	.41	.26	.57	1.5	1.6	3.7	65	90	100	42	42	1.4
28	.41	.32	1.1	1.6	1.7	3.7	59	95	90	53	46	1.3
29	.41	.64	1.6	1.6	------	33	59	95	77	50	46	1.3
30	.41	.92	.99	1.6	------	194	68	85	68	50	44	1.0
31	.41	------	.78	1.6	------	170	------	95	------	50	44	------
TOTAL	9.67	15.84	19.40	49.89	42.6	488.8	2.191	3.308	2.995	1.143.9	1.189	751.3
MEAN	.31	.53	.63	1.61	1.52	15.8	73.0	107	99.8	36.9	38.4	25.0
MAX	.41	1.1	1.6	6.4	1.7	194	154	178	115	71	50	44
MIN	.16	.20	.35	.33	1.4	1.8	44	56	68	3.9	29	1.0
AC-FT	19	31	38	99	84	970	4.350	6.560	5.940	2.270	2.360	1.490
(†)	a350	a1,280	2,640	a5,240	a6,030	a8,960	8,980	a8,510	a5,480	a3,440	1,350	0

CAL YR 1973 TOTAL 5.630.31 MEAN 15.4 MAX 56 MIN .16 AC-FT 11.170
WTR YR 1974 TOTAL 12.204.40 MEAN 33.4 MAX 194 MIN .16 AC-FT 24.210

† Month-end contents, in acre-ft, of Cottonwood Reservoir.
a Contents interpolated.

11492200 CRATER LAKE NEAR CRATER LAKE, OREG.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°58'45", long 122°04'45", (unsurveyed) Crater Lake National Park and Vicinity Quadrangle, Klamath County, at boat harbor at end of trail in Cleetwood Cove and 6 mi (10 km) northeast of Crater Lake post office.

DRAINAGE AREA.--26.2 mi² (67.9 km²), of which 20.5 mi² (53.1 km²) is lake area at elevation 6,176 ft (1,882.4 m).

PERIOD OF RECORD.--October 1961 to current year. 1878 to September 1961 (fragmentary records) available in files of Portland district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level, unadjusted. Prior to September 1961, nonrecording gage and various reference points used near old boat landing at abandoned trail (Eagle Cove) directly across Lake.

EXTREMES.--Current year: Maximum elevation, 6,179.2 ft (1,883.42 m), occurred during period Nov. 19 to May 10, from recorded range in stage; minimum, 6,174.15 ft (1,881.881 m) Oct. 19.

Period of record: Maximum elevation, 6,179.2 ft (1,883.42 m), occurred during period Nov. 19, 1973, to May 10, 1974, from recorded range in stage; minimum observed, 6,163.2 ft (1,878.54 m) Sept. 10, 1942.

Maximum elevation known, 6,180.5 ft (1,883.82 m), average of several observations of line of crustose lichens made between 1916 and 1960; that stage may have occurred near the close of the 19th century. The occurrence of living pine trees slightly higher suggests that the lake has not been materially higher for several centuries.

REMARKS.--Crater Lake occupies the caldera of prehistoric Mount Mazama. It has no visible inlet or outlet. Over a period of years precipitation and runoff from snow melt on the walls of the crater are offset by seepage and evaporation. Records of chemical analyses and of water temperatures for the current year are published in Part 2 of this report. Records of accumulated annual precipitation, collected at the north rim of Crater Lake as part of the operation of this station, are published annually in reports of the National Weather Service.

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,174.48	6,174.62							6,178.81	6,178.86	6,178.71	6,178.21
2	6,174.46	6,174.60							6,178.80	6,178.87	6,178.71	6,178.18
3	6,174.45	6,174.62							6,178.80	6,178.87	6,178.69	6,178.17
4	6,174.43	6,174.69							6,178.89	6,178.87	6,178.67	6,178.15
5	6,174.41	6,174.97							6,178.92	6,178.86	6,178.68	6,178.15
6	6,174.43	6,174.12							6,178.92	6,178.85	6,178.66	6,178.13
7	6,174.40	6,174.22							6,178.91	6,178.84	6,178.63	6,178.11
8	6,174.38	6,175.30							6,178.90	6,178.91	6,178.62	6,178.08
9	6,174.36	6,175.41							6,178.89	6,178.88	6,178.60	6,178.06
10	6,174.34	6,175.53							6,178.88	6,178.87	6,178.57	6,178.02
11	6,174.33	6,175.67						6,178.92	6,178.88	6,178.87	6,178.57	6,178.00
12	6,174.31	6,175.77						6,178.92	6,178.87	6,178.86	6,178.53	6,177.96
13	6,174.29	6,175.82						6,178.91	6,178.87	6,178.84	6,178.50	6,177.92
14	6,174.27	6,175.91						6,178.90	6,178.88	6,178.83	6,178.50	6,177.90
15	6,174.25	6,175.94						6,178.93	6,178.88	6,178.82	6,178.47	6,177.89
16	6,174.24	6,175.95						6,178.94	6,178.88	6,178.82	6,178.45	6,177.88
17	6,174.22	6,175.95						6,178.94	6,178.89	6,178.81	6,178.43	6,177.87
18	6,174.20	6,175.93						6,178.94	6,178.90	6,178.81	6,178.41	6,177.85
19	6,174.17							6,178.92	6,178.91	6,178.81	6,178.38	6,177.84
20	6,174.18							6,178.91	6,178.91	6,178.79	6,178.37	6,177.83
21	6,174.30							6,178.89	6,178.91	6,178.78	6,178.37	6,177.82
22	6,174.42							6,178.89	6,178.91	6,178.77	6,178.35	6,177.79
23	6,174.53							6,178.87	6,178.92	6,178.77	6,178.33	6,177.78
24	6,174.54							6,178.86	6,178.92	6,178.76	6,178.33	6,177.76
25	6,174.52							6,178.85	6,178.92	6,178.75	6,178.32	6,177.75
26	6,174.50							6,178.85	6,178.90	6,178.73	6,178.30	6,177.71
27	6,174.48							6,178.85	6,178.88	6,178.73	6,178.29	6,177.68
28	6,174.52							6,178.85	6,178.88	6,178.73	6,178.27	6,177.67
29	6,174.50				------			6,178.83	6,178.87	6,178.72	6,178.25	6,177.65
30	6,174.50				------			6,178.82	6,178.87	6,178.72	6,178.24	6,177.63
31	6,174.65	------			------		------	6,178.82	------	6,178.71	6,178.22	------
MEAN	6,174.39								6,178.89	6,178.81	6,178.47	6,177.91
MAX	6,174.65								6,178.92	6,178.91	6,178.71	6,178.21
MIN	6,174.17								6,178.80	6,178.71	6,178.22	6,177.63

11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OREG.

LOCATION.--Lat 42°44'25", long 121°50'00", in NW¼SW¼ sec.1, T.33 S., R.7 E., Klamath County, on right bank 250 ft (76 m) downstream from highway bridge, 0.6 mi (1.0 km) southwest of railroad station at Kirk, 10 mi (16 km) upstream from Spring Creek, and 10 mi (16 km) northeast of Klamath Agency.

DRAINAGE AREA.--1,290 mi^2 (3,340 km^2), approximately.

PERIOD OF RECORD.--March 1908 to January 1909, April 1909 to June 1910, October 1954 to current year. Monthly discharge only June 1910, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 4,481.34 ft (1,365.912 m) above mean sea level. Mar. 25, 1908, to June 30, 1910, nonrecording gage or water-stage recorder at two sites about 0.5 mi (0.8 km) upstream at different datums. Oct. 1, 1954, to Sept. 30, 1955, water-stage recorder at present site at datum 2.05 ft (0.625 m) higher.

AVERAGE DISCHARGE.--20 years (1954-74), 215 ft^3/s (6.09 m^3/s), 155,800 acre-ft/yr (192 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 870 ft^3/s (24.6 m^3/s) Apr. 10, gage height, 5.27 ft (1.606 m); no flow Oct. 1-24.
Period of record: Maximum discharge observed, 1,590 ft^3/s (45.0 m^3/s) Mar. 13, 1910, gage height, 3.7 ft (1.13 m), site and datum then in use, from rating curve extended above 800 ft^3/s (22.7 m^3/s); maximum gage height, 5.75 ft (1.753 m) Mar. 3, 1958; no flow at times during 1960-73.

REMARKS.--Records good above 50 ft^3/s (1.42 m^3/s), fair below. Flow affected by natural storage in Klamath Marsh. Small diversions above station for irrigation in vicinity of marsh.

REVISIONS (WATER YEARS).--WSP 1565: 1908-9.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.3	473	380	619	416	767	629	344	126	50	20
2	0	4.3	479	360	630	432	795	621	333	122	48	20
3	0	5.5	476	320	629	429	821	622	322	115	47	18
4	0	4.6	477	290	617	433	838	616	307	108	45	18
5	0	14	478	280	605	420	833	604	302	103	42	18
6	0	28	475	270	591	410	819	584	299	99	41	17
7	0	50	486	260	586	400	825	562	300	95	41	17
8	0	94	494	255	578	390	833	530	291	94	40	17
9	0	152	493	250	568	380	826	498	286	97	40	17
10	0	207	484	250	558	370	841	481	279	98	38	18
11	0	251	456	245	545	370	828	472	273	97	36	19
12	0	283	431	250	530	390	831	464	264	95	34	20
13	0	308	345	260	519	410	833	462	256	93	33	19
14	0	313	420	280	506	460	825	438	247	90	32	19
15	0	337	475	360	499	501	815	420	239	86	34	20
16	0	361	476	500	484	542	816	418	240	82	30	20
17	0	405	483	518	479	582	807	425	229	80	29	22
18	0	438	493	576	472	624	799	436	222	77	27	23
19	0	438	493	625	473	637	778	438	212	75	27	23
20	0	439	495	643	483	645	766	434	211	73	26	25
21	0	443	490	652	472	644	742	432	202	71	25	27
22	0	451	485	658	392	642	695	425	193	68	25	29
23	0	455	467	674	432	643	687	415	185	66	25	30
24	.06	459	466	677	444	636	679	411	176	64	25	30
25	.19	450	482	666	449	629	677	405	166	61	23	30
26	.28	446	476	664	418	623	680	393	160	58	23	30
27	.37	447	451	656	392	604	678	388	152	56	23	30
28	.38	436	463	650	396	573	680	381	150	55	22	30
29	.80	452	460	643	------	632	673	370	142	54	22	29
30	.96	469	455	635	------	711	658	364	135	53	21	30
31	.80	------	450	620	------	733	------	356	------	51	21	------
TOTAL	3.84	8.642.7	14.527	14,367	14.371	16.311	23.145	14,494	7.117	2.562	995	685
MEAN	.12	288	469	463	513	526	772	468	237	82.6	32.1	22.8
MAX	.96	469	495	677	630	733	841	629	344	126	50	30
MIN	0	2.3	345	245	392	370	658	356	135	51	21	17
AC-FT	7.6	17.140	28.810	28.500	28.500	32.350	45.910	28.750	14.120	5.080	1.970	1.360

CAL YR 1973 TOTAL 64.959.17 MEAN 178 MAX 495 MIN 0 AC-FT 128.800
WTR YR 1974 TOTAL 117.220.54 MEAN 321 MAX 841 MIN 0 AC-FT 232.500

11497500 SPRAGUE RIVER NEAR BEATTY, OREG.

LOCATION.--Lat 42°26'50", long 121°14'15", in NW¼SE¼ sec.13, T.36 S., R.12 E., Klamath County, on right bank 1.6 mi (2.6 km) east of Beatty, and 4.6 mi (7.4 km) upstream from Sycan River.

DRAINAGE AREA.--513 mi^2 (1,329 km^2).

PERIOD OF RECORD.--April to September 1912 and November 1912 to September 1913 (fragmentary), October 1913 to September 1915, February to November 1916, March 1917 to June 1918, May 1919 to October 1920, February 1921 to September 1926 (irrigation seasons only), October 1953 to current year. Monthly discharge only October 1913, published in WSP 1315-B. Prior to October 1917, published as "near Yainax."

GAGE.--Water-stage recorder. Datum of gage is 4,305.35 ft (1,312.271 m) above mean sea level. Apr. 19, 1912, to Feb. 19, 1914, nonrecording gage, Feb. 20, 1914, to Sept. 11, 1917, water-stage recorder, and Sept. 12, 1917, to Sept. 30, 1926, nonrecording gage, at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years (1913-15, 1919-20, 1953-74), 319 ft^3/s (9.03 m^3/s), 231,100 acre-ft/yr (285 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Mar. 31, gage height, 8.04 ft (2.451 m); minimum, 117 ft^3/s (3.31 m^3/s) Sept. 1.

Period of record: Maximum discharge, 6,980 ft^3/s (198 m^3/s) Dec. 23, 1964, gage height, 12.19 ft (3.716 m); minimum observed, 57 ft^3/s (1.61 m^3/s) June 30, 1924, June 20, 1926.

REMARKS.--Records good. No regulation. Diversions for irrigation above station in the vicinity of Bly.

REVISIONS (WATER YEARS).--WSP 1315-B: 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	165	827	281	317	417	1,470	857	740	196	159	125
2	147	165	611	213	290	472	1,600	983	722	201	169	128
3	145	155	404	243	285	324	1,410	1,020	713	201	165	136
4	147	155	336	232	306	288	1,120	1,050	710	201	151	138
5	149	159	308	207	272	294	1,070	1,080	737	228	153	140
6	149	163	304	213	245	444	1,040	1,150	767	211	165	134
7	155	190	464	211	258	388	878	1,230	713	207	161	141
8	155	256	481	211	267	285	803	1,320	650	209	153	141
9	153	322	373	213	263	274	770	1,420	599	247	147	140
10	149	406	317	209	258	344	719	1,430	559	256	147	136
11	149	587	313	205	263	442	674	1,320	534	267	151	138
12	149	1,150	317	217	263	509	671	1,250	520	247	151	138
13	147	1,310	283	243	250	520	650	1,180	484	241	149	140
14	147	689	290	358	265	447	629	1,060	464	222	147	141
15	145	498	315	833	263	773	635	937	453	213	140	143
16	147	444	401	1,610	265	867	671	667	447	184	147	153
17	149	433	430	1,580	261	927	710	803	428	180	141	145
18	145	498	551	1,160	258	1,080	779	779	399	177	140	140
19	143	417	360	1,230	261	948	818	752	378	182	143	140
20	147	332	317	948	239	812	779	689	360	177	143	143
21	153	315	412	641	245	698	791	647	344	171	143	145
22	177	292	531	523	234	656	848	593	329	173	141	147
23	186	278	373	509	219	641	937	579	317	173	147	145
24	184	272	317	458	230	629	948	559	292	163	147	145
25	184	276	360	439	261	644	888	579	269	159	143	143
26	165	272	363	396	317	677	836	635	254	159	141	138
27	161	272	329	375	348	698	779	707	250	161	136	132
28	163	306	417	353	304	770	716	779	230	159	136	136
29	171	669	556	336	------	749	713	827	201	161	132	147
30	163	839	854	334	------	1,440	773	809	192	159	130	143
31	163	------	406	334	------	1,920	------	764	------	159	130	------
TOTAL	4,838	12,305	12,920	15,315	7,507	20,377	26,125	28,655	14,055	6,044	4,548	4,201
MEAN	156	410	417	494	268	657	871	924	469	195	147	140
MAX	186	1,310	854	1,610	348	1,920	1,600	1,430	767	267	169	153
MIN	143	155	283	205	219	274	629	559	192	159	130	125
AC-FT	9,600	24,410	25,630	30,380	14,890	40,420	51,820	56,840	27,880	11,990	9,020	8,330

CAL YR 1973 TOTAL 91,071 MEAN 250 MAX 1,310 MIN 87 AC-FT 180,600
WTR YR 1974 TOTAL 156,890 MEAN 430 MAX 1,920 MIN 125 AC-FT 311,200

11501000 SPRAGUE RIVER NEAR CHILOQUIN, OREG.

LOCATION.--Lat 42°35'05", long 121°50'55", in NE¼NW¼ sec.35, T.34 S., R.7 E., Klamath County, on right bank 1.0 mi (1.6 km) northeast of Chiloquin, 4.6 mi (7.4 km) upstream from Modoc Point Canal intake, and at mile 5.4 (8.7 km).

DRAINAGE AREA.--1,580 mi^2 (4,090 km^2), approximately.

PERIOD OF RECORD.--July to October 1920, March 1921 to current year. Monthly discharge only July 1920, published in WSP 1315-B. Prior to October 1931, published as "at McCready Ranch, near Chiloquin."

GAGE.--Water-stage recorder. Datum of gage is 4,202.43 ft (1,280.901 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at site 12 mi (19 km) upstream at different datum.

AVERAGE DISCHARGE.--53 years (1921-74), 578 ft^3/s (16.4 m^3/s), 418,800 acre-ft/yr (516 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,160 ft^3/s (146 m^3/s) Jan. 19, gage height, 6.51 ft (1.984 m); minimum, 245 ft^3/s (6.94 m^3/s) Sept. 6, 7.
Period of record: Maximum discharge, 14,900 ft^3/s (422 m^3/s) Dec. 26, 1964, gage height, 10.37 ft (3.161 m); minimum daily, 50 ft^3/s (1.42 m^3/s) May 26, 27, 1926.

REMARKS.--Records good. Regulation by ponding at irrigation dams. Diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 591: 1922(M). WSP 1011: 1943(M). WSP 1565: 1921-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	325	976	1,280	1,120	805	3,210	1,690	1,270	432	301	254
2	268	310	1,270	1,030	1,090	805	4,580	1,600	1,280	410	301	259
3	268	320	1,580	824	1,020	857	4,900	1,540	1,270	382	301	254
4	272	320	1,740	700	920	871	4,550	1,610	1,240	377	305	250
5	272	330	1,500	690	885	759	4,170	1,700	1,200	371	310	250
6	277	350	1,170	690	871	746	3,850	1,800	1,160	360	310	250
7	282	360	983	690	748	805	3,300	1,870	1,150	355	305	250
8	282	398	892	690	720	874	3,090	1,940	1,150	377	305	259
9	287	415	983	690	733	844	2,950	1,990	1,150	382	296	268
10	287	465	1,210	690	733	720	2,630	2,060	1,120	388	296	272
11	241	610	1,280	690	720	714	2,340	2,160	1,070	393	296	272
12	287	753	1,140	690	714	857	2,150	2,280	1,000	421	287	272
13	287	920	976	690	707	1,000	1,970	2,360	948	443	277	268
14	287	1,160	885	700	707	1,120	1,870	2,350	892	454	272	272
15	287	1,520	785	800	688	1,270	1,790	2,300	831	437	268	272
16	291	1,960	720	1,100	707	1,330	1,720	2,210	785	410	268	272
17	287	1,830	779	2,050	707	1,510	1,670	2,110	772	388	268	268
18	287	1,440	864	3,450	727	1,730	1,660	1,980	753	377	272	263
19	296	1,240	983	4,840	740	1,910	1,660	1,860	727	360	272	277
20	301	1,200	1,200	4,950	727	2,350	1,690	1,760	694	345	272	277
21	301	1,130	1,270	4,390	701	2,910	1,730	1,690	655	345	263	272
22	320	955	1,120	3,840	636	3,070	1,780	1,630	629	340	268	282
23	335	818	1,060	3,120	616	2,770	1,770	1,540	603	330	272	282
24	350	727	1,060	2,350	597	2,430	1,760	1,430	590	325	272	277
25	355	662	990	1,960	554	2,240	1,790	1,340	572	325	272	268
26	350	629	864	1,750	597	2,100	1,850	1,250	554	325	277	263
27	340	616	850	1,560	655	2,030	1,890	1,180	524	320	268	272
28	325	597	885	1,420	733	2,060	1,900	1,160	500	325	263	277
29	315	616	892	1,290	------	2,090	1,870	1,160	470	320	259	277
30	310	714	983	1,220	------	2,440	1,800	1,180	448	315	254	272
31	320	------	1,129	1,150	------	2,740	------	1,230	------	305	250	------
TOTAL	9,244	23,690	33,019	52,024	21,123	48,801	73,890	54,000	26,007	11,437	8,700	8,021
MEAN	300	790	1,065	1,678	754	1,574	2,463	1,742	867	369	281	267
MAX	355	1,960	1,740	4,950	1,120	3,070	4,900	2,360	1,280	454	310	282
MIN	268	310	720	690	554	714	1,660	1,160	448	305	250	250
AC-FT	18,430	46,970	65,480	103,200	41,900	96,800	146,600	107,100	51,580	22,690	17,260	15,910

CAL YR 1973 TOTAL 172,873 MEAN 474 MAX 1,960 MIN 154 AC-FT 342,900
WTR YR 1974 TOTAL 369,987 MEAN 1,014 MAX 4,950 MIN 250 AC-FT 733,900

11502500 WILLIAMSON RIVER BELOW SPRAGUE RIVER, NEAR CHILOQUIN, OREG.

LOCATION.--Lat 42°34'15", long 121°52'35", in NE¼NE¼ sec.4, T.35 S., R.7 E., Klamath County, on right bank 0.2 mi (0.3 km) downstream from Sprague River and 0.8 mi (1.3 km) southwest of Chiloquin.

DRAINAGE AREA.--3,000 mi² (7,770 km²), approximately.

PERIOD OF RECORD.--June 1917 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,155.55 ft (1,266.612 m) above mean sea level. Prior to Sept. 1, 1923, at different datum.

AVERAGE DISCHARGE.--57 years, 1,041 ft³/s (29.5 m³/s), 754,200 acre-ft/yr (930 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,030 ft³/s (171 m³/s) Apr. 3, gage height, 6.52 ft (1.987 m); minimum, 545 ft³/s (15.4 m³/s) Aug. 20, Sept. 6, 7.

Period of record: Maximum discharge, 16,100 ft³/s (456 m³/s) Dec. 26, 1964, gage height, 10.56 ft (3.219 m); minimum, 320 ft³/s (9.06 m³/s) Oct. 14, 1920.

REMARKS.--Records excellent. Some regulation by diversion dams and logpond operations on Sprague River. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 981: 1938(M). WSP 1565: 1920(M), 1927(M), 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	643	1,670	1,830	2,020	1,520	4,380	2,570	1,820	872	628	560
2	590	635	1,910	1,440	2,010	1,530	5,630	2,450	1,830	840	628	560
3	590	643	2,220	1,180	1,940	1,570	6,070	2,420	1,820	816	628	553
4	590	658	2,390	1,080	1,830	1,600	5,720	2,460	1,780	800	635	553
5	590	673	2,190	1,100	1,760	1,500	5,320	2,530	1,740	785	635	553
6	605	718	1,890	1,070	1,740	1,470	4,930	2,610	1,710	763	635	553
7	605	733	1,730	1,000	1,670	1,540	4,450	2,680	1,680	748	620	553
8	598	816	1,630	992	1,580	1,570	4,240	2,720	1,680	770	620	560
9	605	872	1,700	1,010	1,580	1,550	4,090	2,750	1,680	778	620	568
10	605	968	1,900	960	1,570	1,450	3,780	2,800	1,630	785	613	575
11	605	1,150	1,970	944	1,540	1,430	3,510	2,890	1,580	793	605	575
12	598	1,330	1,830	968	1,530	1,560	3,290	2,990	1,510	816	598	575
13	598	1,490	1,620	1,020	1,510	1,690	3,120	3,080	1,440	840	590	575
14	590	1,710	1,530	1,090	1,500	1,840	3,000	3,060	1,380	848	583	575
15	598	2,050	1,510	1,380	1,480	2,020	2,900	2,990	1,330	816	583	583
16	605	2,450	1,460	2,220	1,490	2,110	2,820	2,900	1,280	785	575	583
17	598	2,410	1,520	2,680	1,480	2,330	2,760	2,800	1,270	763	575	583
18	590	2,080	1,600	4,010	1,500	2,580	2,730	2,690	1,240	748	583	568
19	598	1,890	1,710	5,650	1,510	2,790	2,710	2,570	1,230	733	583	583
20	613	1,870	1,900	5,820	1,490	3,210	2,710	2,460	1,190	718	583	590
21	613	1,810	1,970	5,270	1,480	3,770	2,750	2,390	1,150	718	575	590
22	658	1,650	1,840	4,700	1,350	3,980	2,760	2,310	1,100	710	575	590
23	665	1,530	1,780	4,110	1,330	3,740	2,730	2,180	1,080	695	575	598
24	673	1,440	1,780	3,360	1,340	3,390	2,710	2,070	1,060	688	575	590
25	680	1,390	1,720	2,930	1,320	3,200	2,750	1,960	1,040	688	575	583
26	673	1,340	1,600	2,710	1,330	3,050	2,790	1,880	1,010	703	575	575
27	658	1,330	1,570	2,520	1,330	2,960	2,830	1,810	976	703	575	583
28	650	1,320	1,600	2,360	1,430	2,960	2,850	1,760	952	703	568	590
29	628	1,330	1,610	2,220	------	3,050	2,800	1,760	920	680	560	590
30	628	1,430	1,680	2,130	------	3,600	2,720	1,780	904	643	560	590
31	635	------	1,810	2,070	------	3,830	------	1,810	------	628	553	------
TOTAL	19,130	48,359	54,840	71,824	43,640	74,390	105,850	76,130	41,012	23,376	18,386	17,257
MEAN	617	1,345	1,769	2,317	1,559	2,400	3,528	2,456	1,367	754	593	575
MAX	680	2,450	2,390	5,820	2,020	3,980	6,070	3,080	1,830	872	635	598
MIN	590	635	1,460	944	1,320	1,430	2,710	1,760	904	628	553	553
AC-FT	37,940	80,050	108,800	142,500	86,560	147,600	210,000	151,000	81,350	46,370	36,470	34,230

CAL YR 1973 TOTAL 349,093 MEAN 956 MAX 2,450 MIN 411 AC-FT 692,400
WTR YR 1974 TOTAL 586,194 MEAN 1,606 MAX 6,070 MIN 553 AC-FT 1,163,000

11506000 "A" CANAL AT KLAMATH FALLS, OREG.

LOCATION.--Lat 42°12'20", long 121°48'05", in NE¼ sec.30, T.38 S., R.9 E., Klamath County, on left bank 300 ft (91 m) downstream from headgates of canal and 1.0 mi (1.6 km) northwest of Klamath Falls.

PERIOD OF RECORD.--October 1910 to current year. Published as "Klamath Main Canal" 1911-12.

GAGE.--Water-stage recorder. Datum of gage is 4,126.22 ft (1,257.672 m) above mean sea level, Bureau of Reclamation datum (levels by Bureau of Reclamation). Prior to May 1, 1923, water-stage recorder at site 0.2 mi (0.3 km) downstream at head of tunnel and at different datum. May 1, 1923, to Apr. 20, 1924, water-stage recorder at site 1.0 mi (1.6 km) downstream, just below tunnel, at different datum. Apr. 21, 1924, to Apr. 14, 1925, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--64 years, 261 ft³/s (7.39 m³/s), 189,100 acre-ft/yr (233 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 1,180 ft³/s (33.4 m³/s) June 24, 1961; no flow for several months in each year.

REMARKS.--Records excellent. Canal diverts water from Upper Klamath Lake in NE¼ sec.30, T.38 S., R.9 E., for irrigation of lands east of Klamath River on both sides of Lost River. Most of return water reaches Lost River.

COOPERATION.--Gage-height record, and records of daily discharge furnished by Klamath Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270						0	511	991	981	1,030	903
2	268						0	612	1,010	1,010	998	886
3	280						0	665	966	1,000	963	885
4	300						0	725	955	1,010	964	880
5	316						0	745	952	994	978	848
6	311						0	800	931	985	957	833
7	300						0	840	930	974	944	810
8	295						0	870	950	987	921	790
9	295						0	895	959	982	910	785
10	288						0	922	972	948	915	785
11	285						0	940	1,030	882	915	780
12	190						63	930	1,060	831	923	752
13	0						96	942	1,050	808	948	710
14	0						78	913	1,070	817	950	710
15	0						69	908	1,050	857	938	700
16	0						92	905	1,030	896	917	710
17	0						114	878	1,040	948	910	710
18	0						170	818	1,070	980	882	710
19	0						195	761	1,070	1,040	910	710
20	0						220	755	1,040	1,040	918	710
21	0						245	790	1,000	1,030	877	763
22	0						275	852	1,000	1,040	841	767
23	0						295	870	1,010	1,050	846	740
24	0						318	895	1,010	1,050	883	735
25	0						335	943	973	1,050	890	725
26	0						340	943	955	1,060	887	730
27	0						340	955	950	1,050	899	720
28	0						340	999	959	1,030	892	710
29	0				------		373	979	956	1,060	897	705
30	0				------		446	970	955	1,070	897	675
31	0	------			------		------	980	------	1,060	903	------
TOTAL	3,398	0	0	0	0	0	4,404	26,511	29,894	30,520	28,503	22,877
MEAN	110	0	0	0	0	0	147	855	996	985	919	763
MAX	316	0	0	0	0	0	446	999	1,070	1,070	1,030	903
MIN	0	0	0	0	0	0	0	511	930	808	841	675
AC-FT	6,740	0	0	0	0	0	8,740	52,580	59,290	60,540	56,540	45,380

CAL YR 1973 TOTAL 149,470.00 MEAN 410 MAX 1,060 MIN 0 AC-FT 296,500
WTR YR 1974 TOTAL 146,107.00 MEAN 400 MAX 1,070 MIN 0 AC-FT 289,800

11507000 UPPER KLAMATH LAKE NEAR KLAMATH FALLS, OREG.

LOCATION.--Lat 42°15'00", long 121°48'55", in NW¼SW¼ sec.19, T.38 S., R.9 E., Klamath County, at southeast end of lake, 1.4 mi (2.3 km) upstream from outlet and 2.5 mi (4.0 km) northwest of Main Street Bridge at Klamath Falls.

DRAINAGE AREA.--3,810 mi² (9,870 km²), approximately, including 26.2 mi² (67.9 km²) in closed basin of Crater Lake.

PERIOD OF RECORD.--May 1904 to September 1923 (gage heights only), October 1923 to current year. Monthend contents only October 1923 to September 1927, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 4,098.22 ft (1,249.137 m) above mean sea level, or 4,100.00 ft (1,249.680 m) above mean sea level, datum of Bureau of Reclamation. Gage readings have been reduced to elevations above mean sea level, datum of Bureau of Reclamation. See WSP 1735 for history of changes prior to Nov. 10, 1923.

EXTREMES.--Current year: Maximum elevation, 4,143.78 ft (1,263.024 m) June 16 (caused by wind); maximum daily, 4,143.33 ft (1,262.887 m) June 6; minimum, 4,138.67 ft (1,261.467 m) Oct. 22; minimum daily, 4,139.20 ft (1,261.628 m) Oct. 19.

Period of record: Maximum elevation, 4,144.98 ft (1,263.390 m) about Apr. 20, 1904, from high-water marks; minimum recorded, 4,135.55 ft (1,260.516 m) Oct. 30, 1944.

REMARKS.--Reservoir is formed by concrete dam at outlet of natural lake, completed in 1921, replacing a temporary dam built in 1919; controlled storage began Apr. 15, 1919. Capacity, 523,700 acre-ft (646 hm³) between elevations 4,136.0 ft (1,260.65 m) and 4,143.3 ft (1,262.88 m). Dead storage below elevation 4,136.0 ft (1,260.65 m) is 211,300 acre-ft (261 hm³). Stored water may be diverted through "A" Canal for irrigation on land under Klamath project of Bureau of Reclamation, or released to Link River through dam or powerplants at Klamath Falls. Contents given herein represent those above elevation 4,136.0 ft (1,260.65 m). Prior to Oct. 1, 1973 contents given represented those above elevation 4,135.0 ft (1,260.35 m).

COOPERATION.--Capacity table furnished by Bureau of Reclamation, Klamath Project.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, REVISED)

4,136	0	4,139	193,700	4,142	416,400
4,137	61,300	4,140	262,600	4,143	498,300
4,138	127,000	4,141	335,400	4,143.3	523,700

ELEVATION, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,139.48	4,139.82	4,141.31	4,141.81	4,142.09	4,142.08	4,142.78	4,142.90	4,143.15	4,143.11	4,142.54	4,141.94
2	4,139.47	4,139.80	4,141.34	4,141.60	4,142.04	4,142.26	4,142.89	4,142.88	4,143.17	4,142.98	4,142.53	4,141.98
3	4,139.35	4,139.70	4,141.38	4,141.60	4,142.04	4,142.34	4,142.88	4,142.89	4,143.17	4,142.96	4,142.51	4,141.92
4	4,139.33	4,139.60	4,141.45	4,141.56	4,142.19	4,142.23	4,142.88	4,142.87	4,143.14	4,142.97	4,142.48	4,141.95
5	4,139.30	4,139.55	4,141.45	4,141.54	4,142.09	4,142.26	4,142.80	4,142.90	4,143.26	4,142.93	4,142.48	4,141.89
6	4,139.22	4,139.89	4,141.46	4,141.50	4,142.04	4,142.43	4,143.00	4,142.89	4,143.33	4,142.93	4,142.47	4,141.87
7	4,139.43	4,140.00	4,141.45	4,141.47	4,142.00	4,142.58	4,142.92	4,142.94	4,143.28	4,142.71	4,142.51	4,141.85
8	4,139.37	4,139.91	4,141.55	4,141.42	4,142.00	4,142.38	4,142.80	4,142.97	4,143.23	4,142.47	4,142.46	4,141.87
9	4,139.45	4,140.02	4,141.55	4,141.40	4,142.02	4,142.34	4,143.02	4,143.06	4,143.25	4,142.76	4,142.43	4,141.87
10	4,139.38	4,140.18	4,141.50	4,141.40	4,142.01	4,142.24	4,143.04	4,143.01	4,143.26	4,142.82	4,142.39	4,141.90
11	4,139.37	4,140.30	4,141.25	4,141.39	4,142.00	4,142.16	4,142.89	4,143.09	4,143.26	4,142.78	4,142.34	4,141.83
12	4,139.30	4,140.45	4,141.06	4,141.38	4,141.99	4,142.15	4,142.84	4,143.20	4,143.23	4,142.81	4,142.34	4,141.85
13	4,139.33	4,140.48	4,141.43	4,141.37	4,142.00	4,142.32	4,142.77	4,143.10	4,143.21	4,142.80	4,142.35	4,141.70
14	4,139.34	4,140.50	4,141.48	4,141.39	4,142.00	4,142.33	4,142.68	4,143.15	4,143.17	4,142.79	4,142.26	4,141.71
15	4,139.37	4,140.44	4,141.50	4,141.48	4,141.98	4,142.46	4,142.79	4,143.21	4,143.19	4,142.85	4,142.23	4,141.70
16	4,139.38	4,140.87	4,141.42	4,141.63	4,142.08	4,142.47	4,142.68	4,143.13	4,142.43	4,142.78	4,142.24	4,141.69
17	4,139.37	4,140.97	4,141.48	4,141.70	4,142.10	4,142.49	4,142.57	4,143.17	4,143.21	4,142.74	4,142.19	4,141.69
18	4,139.33	4,141.25	4,141.52	4,141.71	4,141.95	4,142.57	4,142.80	4,143.21	4,143.22	4,142.76	4,142.26	4,141.67
19	4,139.20	4,141.00	4,141.49	4,141.95	4,142.34	4,142.53	4,142.70	4,143.30	4,143.14	4,142.75	4,142.20	4,141.65
20	4,139.22	4,141.02	4,141.30	4,142.10	4,142.18	4,142.57	4,142.62	4,143.19	4,143.18	4,142.75	4,142.10	4,141.68
21	4,139.27	4,141.12	4,141.28	4,142.14	4,141.98	4,142.50	4,142.62	4,143.18	4,143.20	4,142.77	4,142.09	4,141.67
22	4,139.38	4,141.15	4,141.47	4,142.15	4,142.25	4,142.53	4,142.51	4,143.21	4,143.21	4,142.77	4,142.08	4,141.67
23	4,139.30	4,141.14	4,141.52	4,142.18	4,142.20	4,142.46	4,142.50	4,143.18	4,143.16	4,142.75	4,142.09	4,141.66
24	4,139.53	4,141.30	4,141.44	4,142.18	4,142.19	4,142.37	4,142.57	4,143.13	4,143.04	4,142.74	4,142.07	4,141.64
25	4,139.70	4,141.22	4,141.61	4,142.20	4,142.10	4,142.27	4,142.62	4,143.13	4,143.13	4,142.69	4,142.04	4,141.61
26	4,139.68	4,141.18	4,141.50	4,142.22	4,142.11	4,142.11	4,142.75	4,143.14	4,143.10	4,142.61	4,142.03	4,141.67
27	4,139.68	4,141.05	4,141.39	4,142.13	4,141.78	4,142.96	4,142.80	4,143.19	4,143.08	4,142.61	4,142.02	4,141.63
28	4,139.80	4,141.08	4,141.60	4,142.08	4,141.64	4,142.17	4,142.78	4,143.18	4,143.08	4,142.62	4,142.03	4,141.55
29	4,139.75	4,141.10	4,141.61	4,142.02	------	4,142.26	4,142.79	4,143.16	4,143.09	4,142.60	4,142.01	4,141.53
30	4,139.73	4,140.90	4,141.65	4,142.00	------	4,142.58	4,142.84	4,143.12	4,143.12	4,142.60	4,141.99	4,141.52
31	4,139.73	------	4,141.68	4,141.82	------	4,142.50	------	4,143.14	------	4,142.60	4,141.97	------
MEAN	4,139.44	4,140.56	4,141.46	4,141.76	4,142.05	4,142.38	4,142.77	4,143.09	4,143.16	4,142.77	4,142.25	4,141.75
MAX	4,139.80	4,141.30	4,141.68	4,142.22	4,142.34	4,142.96	4,143.04	4,143.30	4,143.33	4,143.11	4,142.54	4,141.98
MIN	4,139.20	4,139.55	4,141.06	4,141.37	4,141.64	4,142.08	4,142.50	4,142.87	4,142.43	4,142.47	4,141.97	4,141.52
(†)	245,800	348,400	386,800	414,400	417,700	468,600	485,500	511,000	503,300	461,000	411,900	383,600
(‡)	+27,600	+102,600	+38,400	+27,600	+3,300	+50,900	+16,900	+25,500	-7,700	-42,300	-49,100	-28,300

WTR YR 1974 MEAN 4,141.95 MAX 4,143.33 MIN 4,139.20

† Contents in acre-feet, at end of month, obtained by averaging elevations for last 3 days of month and first 3 days of following month to compensate for wind effect.

‡ Change in contents, in acre-feet.

NOTE.--Monthend contents for Sept. 30, 1973 recomputed using revised capacity table put into use Oct. 1, 1973.

11507500 LINK RIVER AT KLAMATH FALLS, OREG.

LOCATION.--Lat 42°13'25", long 121°47'35", in SW¼NW¼ sec.32, T.38 S., R.9 E., Klamath County, on right bank 600 ft (183 m) upstream from outlet of Keno Canal and 0.4 mi (0.6 km) upstream from Main Street Bridge at Klamath Falls.

DRAINAGE AREA.--3,810 mi² (9,870 km²), approximately, including 26.2 mi² (67.9 km²) in closed basin of Crater Lake.

PERIOD OF RECORD.--May 1904 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,083.71 ft (1,244.715 m) above mean sea level, or 4,085.50 ft (1,245.260 m) above mean sea level, datum of Bureau of Reclamation. Prior to Sept. 14, 1912, water-stage recorder or nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at various datums. Sept. 14, 1912, to Nov. 23, 1923, at site 600 ft (183 m) downstream at datum 5.42 ft (1.652 m) lower. Nov. 24, 1923, to Nov. 15, 1961, at site on left bank at present datum.

AVERAGE DISCHARGE.--70 years, 1,606 ft³/s (45.5 m³/s), 1,164,000 acre-ft/yr (1.44 km³/yr), not adjusted for "A" Canal.

EXTREMES.--Current year: Maximum discharge, 7,460 ft³/s (211 m³/s) Apr. 5; minimum daily, 156 ft³/s (4.42 m³/s) Oct. 1.
Period of record: Maximum discharge, 9,400 ft³/s (266 m³/s) May 12, 1904, gage height at Main Street Bridge, 7.30 ft (2.225 m), datum then in use, from floodmarks; minimum daily, 17 ft³/s (0.48 m³/s) Dec. 13, 1937.

REMARKS.--Records good. Flow regulated since 1919 by Upper Klamath Lake (see station 11507000). Large diurnal fluctuation caused by powerplant above station. Water diverted above station by main or "A" Canal of Klamath project (see station 11506000). Many other diversions above lake. All records presented herein include flow in Keno Canal which, since September 1908, has diverted from Upper Klamath Lake at Link River Dam for power generation, and returns flow to Link River below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	1,010	1,810	3,400	3,670	2,300	5,020	2,340	541	850	470	452
2	224	877	1,820	3,350	3,650	2,320	5,490	2,190	465	846	764	452
3	378	818	1,870	3,340	3,650	2,330	6,050	1,830	495	850	764	453
4	396	613	2,100	3,330	3,680	2,320	6,880	1,690	721	850	683	433
5	474	703	2,320	3,320	3,650	2,320	7,030	1,770	902	857	665	432
6	405	844	2,320	3,310	3,480	2,340	7,180	1,600	795	902	665	431
7	528	723	2,630	3,300	3,020	2,510	7,100	1,290	687	927	546	660
8	838	370	3,020	3,310	2,550	2,830	7,020	1,290	725	798	623	714
9	1,090	241	3,010	3,100	2,240	2,840	7,170	1,360	751	709	683	738
10	1,090	245	3,000	2,820	2,240	2,830	6,980	1,290	990	381	692	743
11	1,080	247	2,950	2,760	2,250	2,800	7,150	1,150	1,040	272	640	741
12	1,060	311	2,920	2,460	2,250	2,800	6,480	1,090	1,150	285	555	931
13	909	466	2,970	2,480	2,240	2,830	5,790	1,040	1,380	221	623	995
14	917	578	3,150	2,520	2,250	2,790	5,680	1,300	1,370	226	719	915
15	1,040	809	3,330	2,900	2,250	3,080	5,800	1,600	1,380	226	791	782
16	1,090	1,210	3,320	2,180	2,240	3,810	5,310	1,780	1,380	298	764	1,050
17	1,090	386	3,330	2,900	2,250	4,140	4,580	1,970	1,170	495	719	1,150
18	1,090	392	3,350	3,860	2,240	4,510	4,630	2,240	1,040	521	719	885
19	1,090	613	3,330	4,140	2,510	5,050	3,210	2,350	1,020	521	701	611
20	970	1,590	3,300	4,010	2,970	5,220	1,840	2,810	952	555	674	577
21	934	2,370	3,300	4,390	3,210	5,280	3,250	3,360	816	495	674	679
22	820	2,460	3,340	5,350	3,260	5,470	3,480	3,170	772	344	638	646
23	950	2,460	3,350	5,530	3,260	5,550	2,990	2,750	778	478	572	621
24	967	2,490	3,330	5,560	3,240	5,490	2,570	2,440	777	555	591	709
25	969	2,510	3,360	5,580	2,970	5,440	2,350	2,420	733	809	578	927
26	870	2,480	3,350	5,570	2,520	5,120	2,340	2,410	880	827	491	933
27	832	2,440	3,310	5,490	2,270	4,890	2,340	2,390	941	683	345	935
28	836	2,450	3,360	5,200	2,250	4,690	2,350	1,890	841	546	373	880
29	912	2,540	3,370	4,540	-------	4,360	2,330	1,010	850	504	424	866
30	1,090	2,250	3,370	4,090	-------	4,510	2,320	733	850	504	635	865
31	1,070	-------	3,380	3,880	-------	4,500	-------	955	-------	504	503	-------
TOTAL	26,165	37,496	92,670	117,970	78,260	117,270	142,710	57,508	27,192	17,839	19,284	22,206
MEAN	844	1,250	2,989	3,805	2,795	3,783	4,757	1,855	906	575	622	740
MAX	1,090	2,540	3,380	5,580	3,680	5,550	7,180	3,360	1,380	927	791	1,150
MIN	156	241	1,810	2,180	2,240	2,300	1,840	733	465	221	345	431
AC-FT	51,900	74,370	183,800	234,000	155,200	232,600	283,100	114,100	53,940	35,380	38,250	44,050

CAL YR 1973 TOTAL 464,872 MEAN 1,274 MAX 3,380 MIN 144 AC-FT 922,100
WTR YR 1974 TOTAL 756,570 MEAN 2,073 MAX 7,180 MIN 156 AC-FT 1,501,000

11509500 KLAMATH RIVER AT KENO, OREG.

LOCATION.--Lat 42°08'00", long 121°57'40", in NW¼SE¼ sec.35, T.39 S., R.7 E., Klamath County, on left bank 1.7 mi (2.7 km) northwest of Keno and 4.5 mi (7.2 km) upstream from Spencer Creek.

DRAINAGE AREA.--3,920 mi^2 (10,200 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--June 1904 to December 1913, October 1929 to current year. Monthly discharge only October to December 1929, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 3,961 ft (1,207.3 m) above mean sea level (from river-profile survey). See WSP 1735 for history of changes prior to Nov. 6, 1954.

AVERAGE DISCHARGE.--54 years, 1,698 ft^3/s (48.1 m^3/s), 1,230,000 acre-ft/yr (1.52 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,300 ft^3/s (263 m^3/s) Apr. 2, gage height, 12.29 ft (3.746 m); minimum, 177 ft^3/s (5.01 m^3/s) July 3; minimum daily, 239 ft^3/s (6.77 m^3/s) June 22, 23.

Period of record: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Mar. 5, 1972, gage height, 12.73 ft (3.880 m); minimum, 26 ft^3/s (0.74 m^3/s) Sept. 23, 1956; minimum daily, 60 ft^3/s (1.70 m^3/s) May 19, 1934.

Maximum stage, 15.3 ft (4.66 m), from floodmark (original datum), about May 10, 1904, discharge, 9,250 ft^3/s (262 m^3/s).

REMARKS.--Records good. Flow regulated since 1919 by Upper Klamath Lake (see station 11507000). Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	455	820	2,590	4,110	4,380	2,640	7,470	2,700	305	252	254	540
2	451	907	2,600	3,950	4,310	2,650	7,900	2,620	289	257	532	520
3	466	825	2,640	3,920	4,260	2,820	7,860	2,320	336	254	544	440
4	540	742	2,630	3,900	4,260	3,100	7,420	2,140	376	259	548	489
5	761	886	2,670	3,800	4,260	3,010	7,510	2,090	330	265	578	540
6	791	830	2,610	3,650	4,050	2,840	7,660	1,910	291	265	631	653
7	786	690	2,890	3,530	3,520	3,000	8,000	1,770	289	257	631	820
8	917	591	3,300	3,490	3,060	3,530	7,470	1,780	283	254	631	830
9	1,190	626	3,260	3,460	2,730	3,560	7,420	1,710	280	257	631	907
10	1,120	504	3,270	3,370	2,620	3,450	7,320	1,350	278	294	631	981
11	1,140	458	3,070	3,210	2,620	3,450	7,100	1,110	283	536	631	987
12	1,150	536	3,040	2,870	2,620	3,460	6,670	1,110	351	406	626	987
13	840	907	3,060	2,890	2,630	3,570	5,970	1,120	455	262	635	992
14	810	1,150	3,230	2,900	2,630	3,850	6,040	1,340	455	278	635	981
15	1,100	1,400	3,510	3,430	2,630	4,130	6,310	1,460	455	278	635	981
16	1,120	1,370	3,540	3,120	2,620	4,690	5,650	1,830	451	265	644	1,310
17	1,000	631	3,540	4,310	2,540	5,270	4,520	2,150	500	254	640	1,330
18	998	574	3,540	5,420	2,520	5,590	4,470	2,460	291	252	595	1,060
19	998	1,030	3,570	5,620	2,860	6,130	4,220	2,360	289	252	622	718
20	835	2,050	3,680	4,740	3,230	6,270	3,470	2,970	291	252	613	718
21	845	2,560	3,680	5,560	3,660	6,330	2,750	3,530	270	252	613	718
22	1,010	2,640	3,670	6,310	3,680	6,030	2,650	3,310	239	252	595	723
23	1,130	2,640	3,780	6,150	3,680	6,210	3,150	2,820	239	252	644	723
24	1,030	2,730	3,870	6,180	3,670	6,030	2,590	2,440	244	254	644	938
25	928	2,700	3,860	6,220	3,370	6,010	2,360	2,360	249	254	631	949
26	830	2,660	3,850	6,220	2,870	5,740	2,590	2,360	254	254	631	959
27	810	2,630	3,830	6,160	2,660	5,210	2,740	2,360	254	254	626	970
28	810	2,620	3,790	5,790	2,640	5,200	2,740	1,910	252	254	626	965
29	998	2,630	3,770	5,180	------	4,800	2,740	815	252	254	622	970
30	1,240	2,660	3,870	4,800	------	5,210	2,700	395	252	254	586	987
31	1,070	------	4,100	4,480	------	6,210	------	399	------	254	578	------
TOTAL	28,169	43,997	104,310	138,740	90,580	140,190	157,660	60,999	9,383	8,437	18,683	25,686
MEAN	909	1,467	3,365	4,475	3,235	4,522	5,255	1,968	313	272	603	856
MAX	1,240	2,730	4,100	6,310	4,380	6,330	8,000	3,530	500	536	644	1,330
MIN	451	458	2,590	2,870	2,520	2,640	2,360	395	239	252	254	440
AC-FT	55,870	87,270	206,900	275,200	179,700	278,100	312,700	121,000	18,610	16,730	37,060	50,950

CAL YR 1973 TOTAL 471,054 MEAN 1,291 MAX 4,100 MIN 238 AC-FT 934,300
WTR YR 1974 TOTAL 826,834 MEAN 2,265 MAX 8,000 MIN 239 AC-FT 1,640,000

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OREG.

LOCATION.--Lat 42°05'05", long 122°04'20", in SE¼SE¼ sec.14, T.40 S., R.6 E., Klamath County, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi^2 (10,570 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) above mean sea level (levels by Pacific Power & Light Co.).

AVERAGE DISCHARGE.--15 years, 1,910 ft^3/s (54.1 m^3/s), 1,384,000 acre-ft/yr (1.71 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,480 ft^3/s (268 m^3/s) Apr. 1, gage height, 8.77 ft (2.673 m); minimum, 354 ft^3/s (10.0 m^3/s) Oct. 18, Nov. 10, 13; minimum daily, 407 ft^3/s (11.5 m^3/s) July 7, 14, Sept. 2.

Period of record: Maximum discharge, 11,000 ft^3/s (312 m^3/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft^3/s (8.01 m^3/s) Feb. 17, 1968; minimum daily, 317 ft^3/s (8.98 m^3/s) July 25, 1968.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake (see station 11507000). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	1,200	2,920	4,210	4,460	2,960	7,970	3,200	651	784	600	976
2	820	1,200	2,920	4,040	4,390	2,950	8,330	3,160	464	689	997	407
3	827	983	2,920	3,980	4,320	3,050	8,470	2,840	934	689	754	1,060
4	920	766	2,910	4,100	4,350	3,370	7,660	2,540	740	411	748	833
5	1,160	1,170	2,910	3,900	4,340	3,310	7,940	2,540	784	689	990	784
6	899	1,140	2,920	3,800	4,190	3,160	7,940	2,390	689	411	1,090	1,080
7	778	1,090	3,100	3,700	3,740	3,160	8,660	2,160	736	407	1,090	1,210
8	1,160	778	3,530	3,600	3,350	3,710	7,890	2,240	595	827	1,080	1,200
9	1,450	1,110	3,460	3,550	3,070	3,730	7,760	2,220	411	827	990	1,220
10	1,470	853	3,490	3,500	2,940	3,660	7,660	1,970	827	411	892	1,240
11	1,460	866	3,340	3,350	2,910	3,630	7,450	1,590	736	866	651	1,260
12	1,460	934	3,260	3,200	2,910	3,630	7,080	1,590	833	1,060	1,090	1,250
13	1,030	1,160	3,240	3,000	2,920	3,730	6,080	1,400	976	640	1,070	1,230
14	820	1,670	3,370	3,200	2,940	4,000	6,120	2,020	927	407	983	1,230
15	1,210	1,770	3,680	3,600	2,950	4,210	6,440	1,790	645	580	990	1,550
16	1,470	1,600	3,730	4,040	2,910	4,860	6,360	2,290	645	590	962	1,640
17	1,390	962	3,730	5,000	2,910	5,260	4,740	2,430	934	590	913	1,510
18	1,180	827	3,710	5,860	2,840	5,500	4,640	2,870	736	625	689	1,320
19	1,190	1,170	3,710	6,100	3,010	6,150	4,480	2,840	736	536	1,200	1,250
20	1,150	2,330	3,820	5,590	3,430	6,240	3,500	3,200	833	580	976	1,060
21	853	2,810	3,870	5,060	3,790	6,390	3,520	3,810	736	600	1,010	934
22	1,240	2,940	3,850	6,460	3,820	6,000	3,200	3,650	411	580	969	927
23	1,470	2,940	3,850	6,220	3,820	6,170	3,760	3,110	411	550	976	1,070
24	1,380	2,920	4,000	6,170	3,820	6,080	3,170	2,850	724	545	927	1,390
25	1,200	2,920	3,970	6,270	3,630	6,030	2,810	2,780	635	610	969	1,340
26	1,220	2,920	3,970	6,240	3,170	5,760	2,910	2,740	645	610	1,020	1,350
27	1,050	2,920	3,970	6,150	2,960	5,410	3,130	2,750	411	560	976	1,220
28	859	2,920	3,970	5,860	2,960	5,230	3,130	2,340	872	541	1,020	1,250
29	1,220	2,920	3,930	5,230	------	4,940	3,160	1,080	411	620	1,010	1,150
30	1,480	2,920	4,020	4,780	------	5,450	3,200	962	411	560	879	1,360
31	1,210	------	4,190	4,600	------	6,320	------	913	------	585	976	------
TOTAL	35,756	52,759	110,290	144,380	96,850	144,070	169,360	74,265	20,549	18,980	29,487	35,301
MEAN	1,153	1,759	3,558	4,657	3,459	4,647	5,645	2,396	685	612	951	1,177
MAX	1,480	2,940	4,190	6,460	4,460	6,390	8,660	3,810	976	1,060	1,200	1,640
MIN	730	766	2,910	3,000	2,840	2,950	2,810	913	411	407	600	407
AC-FT	70,920	104,600	218,800	286,400	192,100	285,800	335,900	147,300	40,760	37,650	58,490	70,020

CAL YR 1973 TOTAL 554,130 MEAN 1,518 MAX 4,190 MIN 351 AC-FT 1,099,000
WTR YR 1974 TOTAL 932,047 MEAN 2,554 MAX 8,660 MIN 407 AC-FT 1,849,000

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.

LOCATION.--Lat 41°55'41", long 122°26'35", in SE¼NE¼ sec.17, T.47 N., R.5 W., Siskiyou County, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi² (11,990 km²), approximately (not including Lost River and Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) above mean sea level (levels by Pacific Power and Light Co.).

AVERAGE DISCHARGE.--14 years, 2,311 ft³/s (63.4 m³/s), 1,674,000 acre-ft/yr (2,060 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 16, gage height, 11.30 ft (3.444 m); minimum daily, 720 ft³/s (20.4 m³/s) July 3, 7.

Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft³/s (425 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 647 ft³/s (18.3 m³/s), Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm³), other smaller reservoirs, and diversions above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of the California district report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,360	1,310	3,960	4,730	5,530	4,410	12,500	3,990	962	730	1,030	1,270
2	1,360	1,310	3,770	4,570	5,320	3,950	11,400	4,110	872	730	1,030	1,270
3	1,340	1,310	3,530	4,390	4,950	3,750	10,700	3,570	896	720	1,030	1,270
4	1,330	1,310	3,300	4,250	5,080	4,020	9,660	3,340	830	725	1,030	1,270
5	1,330	1,340	3,070	4,340	5,050	4,150	9,640	3,360	866	730	1,040	1,270
6	1,320	1,340	3,130	3,960	4,960	4,060	9,520	3,370	920	725	1,050	1,300
7	1,320	1,340	3,360	3,950	4,490	3,980	10,000	3,080	908	720	1,040	1,340
8	1,340	1,570	3,540	3,790	3,850	3,980	9,120	2,950	908	730	1,050	1,340
9	1,340	1,760	3,500	3,680	3,640	4,380	8,750	3,080	908	730	1,030	1,340
10	1,330	1,760	3,720	3,360	3,600	4,360	8,940	2,980	908	740	1,030	1,340
11	1,340	1,880	3,790	3,360	3,410	4,340	8,400	2,490	902	740	1,030	1,340
12	1,340	1,880	3,680	3,390	3,340	4,340	8,550	2,470	980	735	1,020	1,340
13	1,340	1,850	3,600	3,470	3,000	4,390	7,190	2,430	1,200	735	1,020	1,340
14	1,340	1,830	3,820	3,810	2,940	4,680	7,120	2,450	1,220	730	1,030	1,340
15	1,340	1,820	4,060	7,650	3,300	5,120	7,320	2,560	1,210	730	1,030	1,330
16	1,340	1,830	4,150	16,000	3,460	5,820	7,440	2,540	1,210	735	1,030	1,330
17	1,340	1,830	4,580	11,200	3,430	6,440	5,980	2,630	1,200	725	1,030	1,330
18	1,330	1,840	4,460	9,720	3,480	6,550	5,230	3,300	766	725	1,030	1,330
19	1,330	1,820	4,230	9,610	3,750	7,100	4,960	3,440	765	750	1,030	1,340
20	1,330	2,000	4,310	7,990	4,020	7,120	4,550	3,610	765	735	1,030	1,340
21	1,330	3,190	4,600	6,550	4,200	7,340	4,220	4,340	765	730	1,030	1,340
22	1,360	3,340	4,550	7,420	4,410	6,900	3,860	4,260	765	730	1,030	1,350
23	1,340	3,360	4,390	7,540	4,410	6,860	4,600	3,750	760	725	1,030	1,360
24	1,340	3,410	4,360	7,230	4,330	6,920	4,090	3,190	750	725	1,030	1,340
25	1,340	3,370	4,570	7,210	4,310	6,810	3,640	3,240	725	735	1,020	1,340
26	1,320	3,400	4,570	7,170	3,920	6,660	3,540	3,240	725	725	1,020	1,340
27	1,320	3,150	4,570	7,100	3,740	6,180	3,780	3,190	725	813	1,020	1,340
28	1,310	3,220	4,700	6,840	3,900	6,240	3,790	3,080	730	852	1,020	1,340
29	1,310	3,460	4,900	6,100	------	7,090	3,820	1,830	725	730	1,030	1,340
30	1,310	3,810	4,820	5,480	------	9,270	3,920	1,200	725	730	1,030	1,340
31	1,310	------	4,760	5,640	------	8,620	------	1,080	------	740	1,030	------
TOTAL	41,330	66,640	126,350	191,500	113,820	175,830	206,230	94,150	26,591	22,855	31,930	39,900
MEAN	1,333	2,221	4,076	6,177	4,065	5,672	6,874	3,037	886	737	1,030	1,327
MAX	1,360	3,810	4,900	16,000	5,530	9,270	12,500	4,340	1,220	852	1,050	1,360
MIN	1,310	1,310	3,070	3,360	2,940	3,750	3,540	1,080	725	720	1,020	1,270
AC-FT	81,980	132,200	250,600	379,800	225,800	348,800	409,100	186,700	52,740	45,330	63,330	78,940

CAL YR 1973 TOTAL 647,364 MEAN 1,774 MAX 4,900 MIN 665 AC-FT 1,284,000
WTR YR 1974 TOTAL 1,137,026 MEAN 3,115 MAX 16,000 MIN 720 AC-FT 2,255,000

12472800. Columbia River below Priest Rapids Dam, Wash.

LOCATION.--Lat 46°37'44", long 119°51'49", in SE¼NW¼ sec.7, T.13 N., R.24 E., Grant County, on left bank 2.6 mi (4.2 km) downstream from Priest Rapids Dam, 14.7 mi (23.7 km) south of Beverly, and at mile 394.5 (634.8 km).

DRAINAGE AREA.--96,000 mi^2 (249,000 km^2), approximately.

PERIOD OF RECORD.--January 1917 to current year. January 1917 to September 1930, at site 3.4 mi (5.5 km) downstream, published as "at Vernita." October 1930 to July 27, 1959, at site 46.5 mi (74.8 km) upstream, published as "at Trinidad."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 1, 1930, nonrecording gages at site 3.4 mi (5.5 km) downstream at datum 388.7 ft (118.48 m) above mean sea level, unadjusted. Oct. 1, 1930, to July 27, 1959, water-stage recorder at site 46.5 mi (74.8 km) upstream at datum 499.3 ft (152.19 m) above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--57 years, 120,700 ft^3/s (3,418 m^3/s), 87,450,000 acre-ft/yr (108 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 384,000 ft^3/s (10,900 m^3/s) June 24, elevation, 421.12 ft (128.357 m); minimum, 36,400 ft^3/s (1,030 m^3/s) Nov. 30, elevation, 396.29 ft (120.789 m).
Period of record: Maximum discharge, 692,600 ft^3/s (19,600 m^3/s) June 12, 1948, gage height, 59.35 ft (18.090 m), site and datum then in use; minimum, 4,120 ft^3/s (117 m^3/s) Feb. 10, 1932, gage height, 11.40 ft (3.475 m) site and datum then in use.
Flood of June 7, 1894, reached a discharge of about 740,000 ft^3/s (21,000 m^3/s), based on information obtained at other points.

REMARKS.--Records excellent. Diversions for irrigation of about 500,000 acres (202,400 hm^2) above station. Flow regulated by 10 major reservoirs and numerous smaller reservoirs and powerplants.

REVISIONS.--WSP 1933: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121,000	73,700	50,600	76,800	175,000	128,000	116,000	205,000	208,000	346,000	163,000	94,000
2	103,000	83,600	42,000	116,000	189,000	125,000	147,000	200,000	211,000	348,000	163,000	102,000
3	101,000	53,200	79,500	134,000	191,000	115,000	134,000	205,000	216,000	341,000	165,000	108,000
4	76,400	47,300	75,400	120,000	173,000	132,000	133,000	206,000	225,000	317,000	178,000	110,000
5	68,700	104,000	88,700	108,000	172,000	140,000	141,000	211,000	218,000	322,000	165,000	107,000
6	62,800	95,400	82,100	97,500	168,000	133,000	134,000	214,000	199,000	303,000	172,000	107,000
7	63,700	89,200	86,600	109,000	165,000	125,000	124,000	224,000	199,000	281,000	182,000	109,000
8	88,700	84,200	93,600	123,000	170,000	110,000	111,000	226,000	213,000	269,000	178,000	101,000
9	93,200	66,600	63,900	130,000	171,000	100,000	120,000	205,000	212,000	228,000	181,000	117,000
10	89,500	40,100	100,000	141,000	154,000	106,000	125,000	173,000	211,000	223,000	167,000	127,000
11	88,000	37,800	83,900	138,000	147,000	110,000	139,000	165,000	212,000	187,000	143,000	118,000
12	80,900	51,500	110,000	88,000	149,000	141,000	156,000	149,000	218,000	174,000	137,000	101,000
13	50,600	55,100	112,000	70,100	142,000	141,000	119,000	155,000	218,000	167,000	124,000	121,000
14	46,400	60,100	94,000	95,100	126,000	141,000	68,500	140,000	216,000	158,000	127,000	87,800
15	90,800	48,600	70,800	103,000	135,000	131,000	152,000	158,000	221,000	144,000	139,000	67,600
16	84,400	46,200	56,700	122,000	120,000	69,400	154,000	166,000	247,000	187,000	141,000	110,000
17	88,900	54,000	93,600	136,000	129,000	108,000	157,000	221,000	237,000	181,000	133,000	113,000
18	87,300	40,200	107,000	123,000	129,000	109,000	166,000	215,000	248,000	187,000	103,000	116,000
19	82,400	74,200	114,000	162,000	125,000	106,000	148,000	204,000	269,000	190,000	129,000	115,000
20	45,100	79,100	118,000	156,000	137,000	103,000	126,000	203,000	290,000	181,000	133,000	115,000
21	41,700	75,000	114,000	155,000	142,000	98,400	124,000	205,000	305,000	173,000	125,000	94,800
22	72,600	45,800	90,100	182,000	153,000	119,000	142,000	207,000	314,000	178,000	127,000	75,900
23	93,200	61,100	90,700	207,000	131,000	95,800	171,000	203,000	325,000	171,000	115,000	96,200
24	91,100	52,100	111,000	202,000	112,000	74,900	169,000	197,000	342,000	176,000	106,000	117,000
25	83,300	55,900	96,400	196,000	125,000	118,000	174,000	197,000	327,000	172,000	54,000	118,000
26	80,900	87,400	122,000	195,000	126,000	114,000	181,000	200,000	337,000	171,000	110,000	121,000
27	56,700	77,800	134,000	196,000	134,000	122,000	159,000	209,000	349,000	183,000	115,000	115,000
28	49,900	77,500	124,000	199,000	131,000	152,000	187,000	213,000	344,000	160,000	131,000	88,700
29	88,300	97,800	137,000	179,000	------	121,000	195,000	214,000	343,000	160,000	113,000	65,500
30	90,400	82,200	122,000	179,000	------	85,600	195,000	209,000	351,000	164,000	118,000	108,000
31	78,300	------	116,000	169,000	------	101,000	------	206,000	------	165,000	105,000	------
TOTAL	2,439.2M	1,996.7M	2,979.6M	4,407.5M	4,121.0M	3,575.1M	4,367.5M	6,105.0M	7,825.0M	6,607.0M	4,242.0M	3,146.5M
MEAN	78,680	66,560	96,120	142,200	147,200	115,300	145,600	196,900	260,800	213,100	136,800	104,900
MAX	121,000	104,000	137,000	207,000	191,000	152,000	195,000	226,000	351,000	348,000	182,000	127,000
MIN	41,700	37,800	42,000	70,100	112,000	69,400	68,500	140,000	199,000	144,000	54,000	65,500
AC-FT	4,838M	3,960M	5,910M	8,742M	8,174M	7,091M	8,663M	12,110M	15,520M	13,100M	8,414M	6,241M

CAL YR 1973 TOTAL 32,764,800 MEAN 89,770 MAX 152,000 MIN 37,800 AC-FT 64,990,000
WTR YR 1974 TOTAL 51,812,100 MEAN 142,000 MAX 351,000 MIN 37,800 AC-FT 102,800,000

13172500 SNAKE RIVER NEAR MURPHY, IDAHO

LOCATION.--Lat 43°17'31", long 116°25'12", in NW¼NE¼SE¼ sec.35, T.1 S., R.1 W., Ada County, on right bank 4.2 mi (6.8 km) downstream from Swan Falls powerplant, 7.5 mi (12.1 km) northeast of Murphy, and at mile 453.5 (729.7 km).

DRAINAGE AREA.--41,900 mi^2 (108,500 km^2), approximately.

PERIOD OF RECORD.--August to October 1912, August 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,271.17 ft (692.253 m) above mean sea level. Prior to Sept. 7, 1914, nonrecording gage and Sept. 7, 1914, to Sept. 30, 1935, water-stage recorder at site 3.5 mi (5.6 km) upstream at datum 9.79 ft (2.984 m) higher.

AVERAGE DISCHARGE.--61 years, 10,990 ft^3/s (311.2 m^3/s) 7,962,000 acre-ft/yr (9.82 km^3/yr); 15-year base period (1952-67), 10,070 ft^3/s (285 m^3/s).

EXTREMES.--Current year: Maximum discharge, 31,800 ft^3/s (901 m^3/s) Apr. 24 (gage height, 11.06 ft or 3.371 m); minimum discharge, 5,740 ft^3/s (163 m^3/s) July 21 (gage height, 3.07 ft or 0.936 m); minimum daily, 5,900 ft^3/s (167 m^3/s) July 21.

Period of record: Maximum discharge, 47,300 ft^3/s (1,340 m^3/s) June 22, 1918 (gage height, 13.95 ft or 4.242 m, site and datum then in use); minimum recorded, 3,900 ft^3/s (110 m^3/s) July 9, 1949 (gage height, 2.53 ft or 0.771 m); minimum daily, 5,440 ft^3/s (154 m^3/s) Aug. 4, 1914.

REMARKS.--Records good. Major regulation by American Falls Reservoir 260.5 mi (419.1 km) upstream (see sta 13076500). Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 2,590,000 acres (1,050,000 hm^2) of which about 701,000 acres (284,000 hm^2) are by withdrawals from ground water (1966 determination).

REVISIONS (WATER YEARS).--WSP 1737: 1933(M).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 30, 31, Jan. 19, 31, Feb. 2 to June 15, June 24 to July 7)

3.0	5,560	8.0	20,400
4.0	8,240	10.0	27,300
6.0	13,900	11.0	30,800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,970	9,370	11,300	12,000	13,100	16,500	22,400	25,300	16,400	15,000	6,080	7,000
2	9,160	10,000	11,100	11,400	13,500	15,700	25,200	24,500	17,400	15,500	6,300	6,970
3	8,730	9,560	10,800	10,200	14,200	15,200	25,400	24,000	16,600	15,500	6,410	7,000
4	8,300	9,830	11,400	10,200	13,800	16,900	24,800	22,100	17,100	14,000	6,570	7,030
5	8,540	9,910	11,800	11,600	14,700	17,800	25,100	22,700	16,700	14,500	6,650	7,460
6	9,020	10,000	12,100	12,000	15,000	19,600	25,400	23,000	16,200	15,400	7,190	7,540
7	8,780	11,300	11,900	10,900	14,500	20,500	25,200	23,300	16,200	13,300	6,680	7,480
8	9,080	10,300	12,000	11,600	15,300	20,400	24,700	23,700	15,800	12,400	6,730	7,430
9	8,890	10,500	13,000	11,600	15,800	24,300	24,900	23,200	16,500	9,290	6,650	7,430
10	9,830	10,700	13,200	11,000	16,000	23,800	22,600	23,200	16,500	9,510	7,000	7,510
11	9,990	11,100	13,400	11,900	14,600	23,900	22,800	23,000	16,500	7,860	7,210	7,760
12	9,850	9,830	13,300	11,200	14,800	24,100	24,300	23,100	16,500	8,700	7,300	7,700
13	9,930	11,100	13,100	10,100	15,500	23,600	24,200	24,000	15,700	7,970	7,270	7,950
14	9,770	10,600	11,400	11,500	15,900	24,800	27,100	22,400	15,100	7,970	7,190	8,140
15	9,510	10,500	11,800	12,000	15,400	25,600	27,600	22,000	14,700	7,400	6,650	8,300
16	9,240	10,400	11,700	14,100	15,400	25,800	26,800	21,300	12,000	6,810	6,680	8,730
17	9,960	10,400	11,800	14,600	15,400	28,200	25,100	20,300	10,300	6,220	6,920	8,730
18	9,610	10,800	11,800	14,900	14,800	27,500	24,900	18,600	12,200	6,240	6,870	8,890
19	9,450	10,800	11,900	15,200	16,200	27,300	24,500	18,200	11,600	6,300	6,730	8,590
20	8,890	10,600	11,900	13,500	19,500	26,100	27,800	16,800	11,600	6,160	6,760	8,510
21	9,370	10,800	12,000	13,600	16,700	26,300	26,000	17,300	11,700	5,900	6,970	8,490
22	9,130	10,800	12,000	12,500	14,500	25,400	25,200	16,200	11,600	5,920	6,950	8,860
23	9,830	10,800	12,000	11,800	13,700	24,000	28,100	16,700	12,900	6,300	6,920	8,650
24	9,370	10,800	12,100	11,600	13,500	23,400	29,000	16,200	15,500	6,380	6,920	8,510
25	9,290	11,200	11,800	12,500	15,000	23,900	25,900	16,700	15,500	6,300	7,190	8,810
26	9,370	10,900	12,000	12,600	16,600	21,100	25,100	15,700	15,500	6,220	7,210	8,380
27	9,750	10,700	11,300	12,000	16,100	16,000	25,500	15,600	15,200	6,190	7,050	8,270
28	9,400	11,600	11,500	10,900	17,700	13,600	25,000	15,800	14,600	6,160	6,920	8,270
29	9,000	11,200	10,400	11,800	------	15,900	22,800	16,400	14,600	6,160	6,760	8,300
30	9,770	10,700	13,300	12,300	------	14,700	27,200	14,200	14,800	6,190	6,840	8,430
31	9,080	------	13,300	13,400	------	20,800	------	14,800	------	5,970	6,950	------
TOTAL	288,860	317,100	372,400	376,500	427,200	672,700	760,600	620,300	443,500	273,720	212,520	241,120
MEAN	9,318	10,570	12,010	12,150	15,260	21,700	25,350	20,010	14,780	8,830	6,855	8,037
MAX	9,990	11,600	13,400	15,200	19,500	28,200	29,000	25,300	17,400	15,500	7,300	8,890
MIN	8,300	9,370	10,400	10,100	13,100	13,600	22,400	14,200	10,300	5,900	6,080	6,970
AC-FT	573,000	629,000	738,700	746,800	847,400	1,334M	1,509M	1,230M	879,700	542,900	421,500	478,300

CAL YR 1973 TOTAL 4,022,000 MEAN 11,020 MAX 20,600 MIN 5,910 AC-FT 7,978,000
WTR YR 1974 TOTAL 5,006,520 MEAN 13,720 MAX 29,000 MIN 5,900 AC-FT 9,930,000

13181000 OWYHEE RIVER NEAR ROME, OREG.

LOCATION.--Lat 42°52'00", long 117°39'00", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, on right bank 0.5 mi (0.8 km) downstream from Jordan Creek, 2.6 mi (4.2 km) north of Rome, and at mile 117.0 (188.3 km).

DRAINAGE AREA.--About 8,000 mi^2 (20,700 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft (1,019.312 m) above mean sea level. Prior to Feb. 10, 1960, at datum 0.24 ft (0.073 m) lower.

AVERAGE DISCHARGE.--25 years, 904 ft^3/s (25.6 m^3/s), 654,900 acre-ft/yr (807 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 16,600 ft^3/s (470 m^3/s) Mar. 17, gage height, 12.65 ft (3.856 m); minimum, 88 ft^3/s (2.49 m^3/s) Sept. 30.

Period of record: Maximum discharge, 33,500 ft^3/s (949 m^3/s) Dec. 24, 1964, gage height, 16.7 ft (5.09 m), from floodmark; minimum, 42 ft^3/s (1.19 m^3/s) Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

REMARKS.--Records good. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft (86.3 hm^3), increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft (40.3 hm^3), and numerous small reservoirs. Diversions above station for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	174	361	385	542	788	5,910	2,660	590	171	124	130
2	202	171	414	267	523	3,790	6,300	2,650	560	156	133	127
3	193	171	393	200	468	3,720	7,120	2,650	530	156	135	130
4	196	168	397	180	428	2,500	5,710	2,590	500	159	130	130
5	189	165	369	180	345	1,800	5,150	2,510	480	162	127	121
6	186	174	337	250	325	1,620	5,600	2,500	450	168	127	121
7	193	180	309	282	301	2,310	4,900	2,490	430	174	127	127
8	193	186	286	250	361	2,500	4,090	2,450	410	193	135	130
9	196	199	313	267	345	2,050	3,890	2,460	390	206	159	130
10	193	301	313	274	341	1,590	3,770	2,540	370	227	153	135
11	196	260	301	317	357	1,550	3,450	2,460	360	237	153	124
12	205	239	286	353	365	3,340	3,240	2,340	340	273	162	115
13	202	226	271	393	365	7,160	3,240	2,240	325	292	180	118
14	199	313	271	414	357	6,250	3,040	2,140	310	308	190	121
15	196	274	267	574	353	8,020	2,870	1,960	300	308	183	133
16	196	260	250	1,350	365	13,400	2,910	1,780	285	308	165	141
17	196	260	260	3,990	393	15,300	2,950	1,650	275	251	153	141
18	193	267	260	5,360	423	13,700	3,110	1,560	265	223	144	141
19	186	313	305	3,710	432	12,300	3,450	1,410	255	209	133	138
20	186	357	290	3,850	432	10,600	3,710	1,280	245	190	130	138
21	186	317	282	2,890	428	8,020	3,730	1,180	235	183	138	135
22	183	301	278	1,620	423	6,920	3,550	1,090	230	187	153	133
23	183	293	301	1,140	393	6,830	3,500	1,020	225	177	159	130
24	180	286	325	949	357	6,430	3,560	951	220	165	162	124
25	180	274	325	893	317	6,640	3,610	910	216	165	162	115
26	183	278	309	855	333	7,660	3,490	860	193	168	162	110
27	186	329	219	758	345	8,160	3,340	800	193	159	150	110
28	183	337	264	670	365	7,620	3,120	750	190	168	138	107
29	183	333	345	585	------	6,630	2,870	700	183	153	133	99
30	177	345	410	551	------	6,870	2,700	660	174	144	127	94
31	174	------	500	556	------	7,990	------	630	------	138	127	------
TOTAL	5,903	7,751	9,811	34,313	10,782	194,058	117,880	53,871	9,729	6,178	4,554	3,748
MEAN	190	258	316	1,107	385	6,260	3,929	1,738	324	199	147	125
MAX	209	357	500	5,360	542	15,300	7,120	2,660	590	308	190	141
MIN	174	165	219	180	301	788	2,700	630	174	138	124	94
AC-FT	11,710	15,370	19,460	68,060	21,390	384,900	233,800	106,900	19,300	12,250	9,030	7,430

CAL YR 1973 TOTAL 245,152 MEAN 672 MAX 3,790 MIN 115 AC-FT 486,300
WTR YR 1974 TOTAL 458,578 MEAN 1,256 MAX 15,300 MIN 94 AC-FT 909,600

PEAK DISCHARGE (BASE, 5,400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-17	2400	8.21	6,640	3-17	1530	12.65	16,600
3- 2	1930	8.27	6,750				

NOTE.--No gage-height record May 24 to June 25.

13182500 LAKE OWYHEE NEAR NYSSA, OREG.

LOCATION.--Lat 43°38'30", long 117°14'30", in NW¼SE¼ sec.20, T.22 S., R.45 E., Malheur County, near left abutment on Owyhee Dam on Owyhee River, 21 mi (33.8 km) southwest of Nyssa, and at mile 27.8 (44.7 km).

DRAINAGE AREA.--11,160 mi^2 (28,900 km^2), approximately.

PERIOD OF RECORD.--October 1932 to current year. Prior to October 1958, published as Owyhee Reservoir at Owyhee Dam, near Nyssa.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1965, non-recording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 1,123,000 acre-ft (1,380 hm^3) May 7, elevation, 2,670.10 ft (813.846 m); minimum, 788,100 acre-ft (972 hm^3) Oct. 12, elevation, 2,640.08 ft (840.696 m).

Period of record: Maximum contents observed, 1,140,000 acre-ft (1,410 hm^3) Apr. 15, 1952, elevation, 2,671.50 ft (814.273 m); minimum observed since full capacity was attained on May 7, 1936, 437,000 acre-ft (539 hm^3) Oct. 1, 1961, elevation, 2,595.35 ft (791.063 m).

REMARKS.--Reservoir is formed by concrete arch-gravity dam, completed in September 1932; storage began Oct. 16, 1932. Capacity, 1,122,000 acre-ft (1,380 hm^3) between elevations 2,367.50 ft (721.614 m) bottom of sluice gates and 2,670.00 ft (813.816 m) top of spillway gate, 715,000 acre-ft (882 hm^3) between elevations 2,590.20 ft (789.493 m) diversion tunnel and 2,670.00 ft (813.816 m). Dead storage below elevation 2,367.50 ft (721.614 m) negligible. Figures given herein are contents above elevation 2,367.50 ft (721.614 m). Reservoir generally will not be drawn below elevation 2,590.2 ft (789.493 m) contents, 406,800 acre-ft (502 hm^3), which project considers dead storage. Water is released through diversion tunnel to South Canal for irrigation of lands west of Snake River in vicinity of Homedale, Idaho, and to North Canal for irrigation of lands north and west of Owyhee River, and through sluice gates to river for Owyhee Canal, which diverts about 18 mi (29 km) downstream.

COOPERATION.--Capacity tables furnished by U.S. Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	2,640.98	796,800	-
Oct. 31	2,641.27	799,600	+2,800
Nov. 30	2,643.27	819,300	+19,700
Dec. 31	2,645.83	845,000	+25,700
CAL YR 1973	-	-	-74,700
Jan. 31	2,652.85	919,000	+74,000
Feb. 28	2,655.22	945,200	+26,200
Mar. 31	2,668.69	1,105,000	+59,800
Apr. 30	2,669.83	1,120,000	+15,000
May 31	2,668.22	1,099,000	-21,000
June 30	2,662.17	1,025,000	-74,000
July 31	2,654.89	941,500	-83,500
Aug. 31	2,646.71	854,000	-87,500
Sept.30	2,640.45	791,600	-62,400
WTR YR 1974	-	-	-5,200

13183000 OWYHEE RIVER BELOW OWYHEE DAM, OREG.

LOCATION.--Lat 43°39'17", long 117°15'16", in SE¼ sec.18, T.22 S., R.45 E., Malheur County, on left bank 0.8 mi (1.3 km) downstream from Owyhee Dam, 20 mi (32 km) southwest of Nyssa, and at mile 27.0 (43.4 km).

DRAINAGE AREA.--11,160 mi² (28,900 km²), approximately.

PERIOD OF RECORD.--February 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,343.67 ft (714.351 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--42 years (1932-74), 347 ft³/s (9.83 m³/s), 251,400 acre-ft/yr (310 hm³/yr), not adjusted for storage or diversion.

EXTREMES.--Current year: Maximum discharge, 7,550 ft³/s (214 m³/s) Mar. 21, gage height, 9.80 ft (2.987 m); minimum, 1.8 ft³/s (0.051 m³/s) Oct. 30, gage height, 0.25 ft (0.076 m).

Period of record: Maximum discharge, 22,900 ft³/s (649 m³/s) Apr. 15, 1952, gage height, 15.70 ft (4.785 m); no flow for part of Aug. 8, 9, 1932, when temporary diversion tunnel at Owyhee Dam was closed.

REMARKS.--Records good. Flow regulated since October 1932 by Lake Owyhee (see station 13182500), and by many smaller reservoirs. Diversion of 475,200 acre-ft (586 hm³) from Lake Owyhee during the year for irrigation of lands below station and outside the basin. Many smaller diversions for irrigation above station.

COOPERATION.--Water-stage recorder inspected by irrigation district employees.

REVISIONS (WATER YEARS).--WSP 983: 1941-42. WSP 1397: 1930, 1933, 1946.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	2.4	2.3	2.3	2.6	3	7,280	761	208	185	136	177
2	76	2.3	2.3	2.3	2.5	3	6,900	640	205	185	136	177
3	70	2.3	2.3	2.3	2.5	3	6,750	640	205	185	136	175
4	70	2.3	2.3	2.3	2.6	3	6,950	640	188	185	136	175
5	70	2.3	2.3	2.3	2.5	4	6,680	775	177	185	134	175
6	70	2.2	2.3	2.3	2.5	4	5,050	860	172	183	134	175
7	70	2.2	2.3	2.3	2.5	5	4,690	860	172	183	134	172
8	70	2.5	2.3	2.2	2.5	5	4,590	865	172	177	134	172
9	70	2.3	2.3	2.3	2.6	6	4,370	990	175	159	134	159
10	70	2.3	2.3	2.2	2.6	7	4,060	1,080	172	155	134	157
11	52	2.3	2.3	2.1	2.6	8	3,240	1,080	172	138	134	157
12	3.7	2.2	2.3	2.5	2.6	8	2,890	1,080	175	128	134	148
13	3.0	2.2	2.3	2.6	2.6	8	2,350	1,080	180	128	134	145
14	3.1	2.2	2.3	2.8	2.6	9	2,100	1,080	191	128	134	145
15	3.1	2.1	2.3	2.7	2.6	14	2,160	960	188	128	134	145
16	3.1	2.1	2.3	2.5	2.6	1,770	2,150	885	188	128	134	132
17	3.1	2.3	2.4	2.5	2.6	4,520	2,080	672	188	128	134	124
18	2.8	2.4	2.3	2.7	2.7	5,340	1,410	504	188	128	134	124
19	2.8	2.3	2.3	2.6	2.7	5,390	1,070	504	185	128	148	124
20	2.7	2.4	2.3	2.5	2.6	6,500	1,070	369	185	130	157	116
21	2.5	2.4	2.5	2.5	2.6	7,370	1,060	211	185	130	159	108
22	2.4	2.4	2.3	2.5	2.6	7,460	1,050	211	188	130	170	108
23	2.5	2.4	2.4	2.5	2.6	7,280	1,050	214	188	128	175	108
24	2.4	2.4	2.3	2.5	2.6	7,110	1,050	211	188	128	175	108
25	2.3	2.3	2.3	2.5	2.7	6,930	1,050	211	188	126	175	106
26	2.2	2.3	2.3	2.5	2.7	6,410	1,050	211	188	126	175	106
27	2.2	2.3	2.5	2.5	2.7	7,240	1,050	208	188	126	175	94
28	2.2	2.3	2.5	2.4	2.7	7,330	1,050	208	188	126	175	86
29	2.2	2.3	2.6	2.4	------	7,330	1,060	208	185	126	175	86
30	2.1	2.3	2.5	2.4	------	7,130	1,060	208	185	126	175	76
31	2.1	------	2.4	2.7	------	7,100	------	208	------	132	177	------
TOTAL	824.5	69.0	72.7	75.7	72.8	102,300	88,370	18,634	5,557	4,478	4,631	4,060
MEAN	26.6	2.30	2.35	2.44	2.60	3,300	2,946	601	185	144	149	135
MAX	84	2.5	2.6	2.8	2.7	7,460	7,280	1,080	208	185	177	177
MIN	2.1	2.1	2.3	2.1	2.5	3.0	1,050	208	172	126	134	76
AC-FT	1,640	137	144	150	144	202,900	175,300	36,960	11,020	8,880	9,190	8,050
MEAN†	280	333	420	1,210	474	5,920	3,980	1,700	400	207	148	166
AC-FT†	17,190	19,840	25,840	74,150	26,340	364,290	236,800	104,520	23,840	12,750	9,120	9,870

CAL YR 1973 TOTAL 55,487.3 MEAN 152 MAX 2,970 MIN 2.1 AC-FT 110,100 MEAN† 701 AC-FT† 74,150
WTR YR 1974 TOTAL 229,144.7 MEAN 628 MAX 7,460 MIN 2.1 AC-FT 454,500 MEAN† 1,277 AC-FT† 924,400

† Adjusted for diversions from Lake Owyhee and change in lake contents.

MALHEUR RIVER BASIN

13214000 MALHEUR RIVER NEAR DREWSEY, OREG.

LOCATION.--Lat 43°47'05", long 118°19'50", in NE¼SE¼ sec.31, T.20 S., R.36 E., Harney County, on left bank 300 ft (91 m) downstream from bridge on U.S. Highway 20, 0.5 mi (0.8 km) downstream from Cottonwood Creek, 3.0 mi (4.8 km) southeast of Drewsey, and at mile 126 (203 km).

DRAINAGE AREA.--910 mi^2 (2,360 km^2), approximately.

PERIOD OF RECORD.--June 1920 to September 1921, November, December 1921, March, April 1922, April to September 1923, June 1926 to current year. Monthly discharge only for some periods, published in WSP 1317. March to September 1914 at site 13 mi (21 km) upstream; records not equivalent owing to inflow from several creeks.

GAGE.--Water-stage recorder. Datum of gage is 3,479.13 ft (1,060.439 m) above mean sea level. Prior to Apr. 27, 1923, water-stage recorder or nonrecording gage at site 0.5 mi (0.8 km) downstream at different datum. Apr. 27, 1923, to June 6, 1939, water-stage recorder at site 7 mi (11 km) downstream at different datum.

AVERAGE DISCHARGE.--48 years (1926-74), 181 ft^3/s (5.13 m^3/s), 131,100 acre-ft/yr (162 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,800 ft^3/s (108 m^3/s) Mar. 30, gage height, 10.55 ft (3.216 m); minimum, 5.3 ft^3/s (0.150 m^3/s) Sept. 4, 5.

Period of record: Maximum discharge, 12,000 ft^3/s (340 m^3/s) Dec. 23, 1964, gage height, 13.50 ft (4.115 m), from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of contracted-opening measurement at gage height 13.20 ft (4.023 m); no flow at times.

REMARKS.--Records good. Slight regulation by small reservoirs above station. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1093: 1927. WSP 1287: Drainage area. WSP 1397: 1921, 1927-31, 1937, drainage area (former site). WSP 1517: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	62	638	100	418	360	1,910	931	405	128	22	5.8
2	14	71	509	88	353	330	1,820	1,010	403	109	20	5.8
3	14	53	304	88	335	270	1,410	1,010	398	94	20	6.1
4	19	46	226	88	343	270	1,190	983	410	91	20	5.8
5	21	69	181	88	299	285	1,100	971	468	80	20	5.3
6	21	71	167	88	240	375	1,070	999	539	73	17	5.6
7	20	78	272	88	260	323	947	1,040	490	93	15	6.8
8	21	81	444	88	275	313	939	1,040	453	105	15	9.2
9	20	86	198	88	285	289	979	1,070	405	175	16	11
10	21	92	151	88	290	263	931	1,050	363	197	15	10
11	24	124	154	94	285	283	927	947	335	150	9.6	12
12	27	180	149	110	290	458	999	807	335	135	9.6	20
13	27	225	143	150	275	624	967	737	360	112	8.0	27
14	27	168	138	400	280	465	963	653	398	88	8.8	31
15	31	156	136	1,630	275	623	1,020	605	433	73	8.4	35
16	28	189	136	2,800	285	1,460	1,070	548	453	64	10	32
17	28	208	264	2,890	275	1,570	1,120	533	455	62	12	28
18	29	189	416	1,850	270	1,600	1,250	530	455	68	13	27
19	32	173	198	2,200	280	1,300	1,360	503	438	64	16	28
20	33	130	172	1,270	250	1,090	1,290	453	418	59	17	30
21	36	124	168	821	255	967	1,240	395	398	57	14	31
22	39	126	192	681	230	947	1,230	348	348	54	12	32
23	46	119	181	626	180	939	1,250	309	305	49	11	34
24	47	117	157	584	230	923	1,300	315	279	45	9.2	35
25	52	111	145	539	275	1,020	1,290	295	265	45	8.4	36
26	47	112	115	495	260	1,080	1,150	305	225	40	8.0	37
27	54	120	116	448	250	1,150	1,010	345	201	31	8.0	38
28	57	123	216	438	280	1,300	947	403	177	25	9.2	39
29	60	159	192	415	------	1,280	877	448	153	25	10	40
30	63	375	173	378	------	2,690	856	435	135	24	8.0	40
31	58	------	120	418	------	2,420	------	423	------	28	6.4	------
TOTAL	1,028	3,937	6,771	20,129	7,823	27,267	34,412	20,441	10,900	2,443	396.6	703.4
MEAN	33.2	131	218	649	279	880	1,147	659	363	78.8	12.8	23.4
MAX	63	375	638	2,890	418	2,690	1,910	1,070	539	197	22	40
MIN	12	46	115	88	180	263	856	295	135	24	6.4	5.3
AC-FT	2,040	7,810	13,430	39,930	15,520	54,080	68,260	40,540	21,620	4,850	787	1,400

CAL YR 1973 TOTAL 40,067.0 MEAN 110 MAX 1,650 MIN 2.4 AC-FT 79,470

WTR YR 1974 TOTAL 136,251.0 MEAN 373 MAX 2,890 MIN 5.3 AC-FT 270,300

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	2200	6.17	800	3-30	1800	10.55	3,800
1-17	0830	10.52	3,770	4-19	1630	7.19	1,440
3-18	0830	7.78	1,730				

13214500 WARMSPRINGS RESERVOIR NEAR RIVERSIDE, OREG.

LOCATION.--Lat 43°35'05", long 118°12'30", in SW¼ sec.8, T.23 S., R.37 E., Malheur County, on Bureau of Reclamation lands, near right end of dam on Malheur River, 3 mi (5 km) northwest of Riverside, 4 mi (6 km) upstream from South Fork, and at mile 108 (174 km).

DRAINAGE AREA.--1,100 mi^2 (2,850 km^2), approximately.

PERIOD OF RECORD.--January 1920 to October 1929, December 1929 to current year.

GAGE.--Water-stage recorder. Prior to May 29, 1964, nonrecording gage read daily or weekly. Datum of gage is 3,327.0 ft (1,014.07 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 191,800 acre-ft (236 hm^3) June 19, elevation, 3,406.18 ft (1,038.204 m); minimum, 1,150 acre-ft (1.42 hm^3) Oct. 1, elevation, 3,333.03 ft (1,015.908 m).

Period of record: Maximum contents, 196,100 acre-ft (242 hm^3) Apr. 16, May 13, 1958, elevation, 3,407.10 ft (1,038.484 m); no contents Sept. 18 to Nov. 1, 1929, Aug. 26 to sometime in November 1935, Sept. 18 to Oct. 11, 1950.

REMARKS.--Reservoir is formed by concrete-arch dam. Storage began in 1919. Capacity, 191,000 acre-ft (236 hm^3) between elevations 3,327.00 ft (1,014.070 m), bottom of outlet tunnel, and 3,406.00 ft (1,038.149 m), top of flashboards. Dead storage, 1,400 acre-ft (1.73 hm^3) below elevation 3,327.00 ft (1,014.070 m) not included in records. Water used to irrigate lands on both sides of river between Namorf and Ontario.

COOPERATION.--Data for computing capacity table furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	3,333.02	1,150	-
Oct. 31	3,338.62		+3,030
Nov. 30	3,347.23	13,050	+8,870
Dec. 31	3,357.66	30,320	+17,270
CAL YR 1973	-	-	-58,260
Jan. 31	3,374.48	73,240	+42,920
Feb. 28	3,378.28	85,000	+11,760
Mar. 31	3,394.14	104,100	+19,100
Apr. 30	3,403.34	179,000	+74,900
May 31	3,404.97	186,400	+7,400
June 30	3,405.13	187,100	+700
July 31	3,399.11	161,000	-26,100
Aug. 31	3,390.68	126,900	-34,100
Sept.30	3,385.22	107,700	-19,200
WTR YR 1974	-	-	+106,000

13215000 MALHEUR RIVER BELOW WARMSPRINGS RESERVOIR, NEAR RIVERSIDE, OREG.

LOCATION.--Lat 43°34'15", long 118°12'03", in SW¼ sec.17, T.23 S., R.37 E., Malheur County, on left bank 1.0 mi (1.6 km) downstream from Warmsprings Dam, 3.0 mi (4.8 km) upstream from South Fork, 4.0 mi (6.4 km) northwest of Riverside, and at mile 107 (172 km).

DRAINAGE AREA.--1,100 mi^2 (2,850 km^2), approximately.

PERIOD OF RECORD.--January 1906 to March 1907 and December 1908 (gage heights only), January 1909 to September 1910, December 1914 to July 1917, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317. Figures of discharge for January 1906 to March 1907, published in WSP 272 and 370, have been found to be unreliable and should not be used. Published as Middle Fork of Malheur River at Riverside 1906-7, as Middle Fork of Malheur River above South Fork, at Riverside 1909-10, as Malheur River above South Fork, at Riverside in WSP 370, 1906-10, and as Malheur River at Warmsprings reservoir site, near Riverside 1914-17.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 3,305 ft (1,007 m), by barometer. See WSP 1317 or 1737 for history of changes prior to Sept. 29, 1949.

AVERAGE DISCHARGE.--55 years (1919-74), 175 ft^3/s (4.96 m^3/s), 126,800 acre-ft/yr (156 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Apr. 21, gage height, 6.63 ft (2.021 m); no flow at times.
Period of record: Maximum discharge observed, 7,200 ft^3/s (204 m^3/s) Mar. 1, 1910, gage height, 10.7 ft (3.26 m), site and datum then in use, from rating curve extended above 820 ft^3/s (23.2 m^3/s); no flow at times.

REMARKS.--Records good except those below 50 ft^3/s (1.42 m^3/s), which are poor. Flow completely regulated since November 1919 by Warmsprings Reservoir (see station 13214500). Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 833: 1936. WSP 1063: 1942-45. WSP 1397: 1909-10, 1917. WSP 1447: 1955. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.10	.10	.10	.10	.10	.1	555	253	451	528	451
2	.10	.10	.10	.10	.10	.10	.1	555	253	447	532	451
3	.10	.10	.10	.10	.10	.10	.1	721	226	446	532	451
4	.10	.10	.10	.10	.10	.10	.1	816	217	447	532	451
5	.10	.10	.10	.10	.10	.10	.1	825	199	442	532	420
6	.10	.10	.10	.10	.10	.10	.1	830	166	442	496	393
7	.10	.10	.10	.10	.10	.10	.1	930	150	442	483	388
8	.10	.10	.10	.10	.10	.10	.1	980	145	442	483	384
9	.10	.10	.10	.10	.10	.10	.1	965	126	438	483	370
10	.10	.10	.10	.10	.10	.10	.1	965	123	424	483	348
11	.10	.10	.10	.10	.10	.10	259	970	126	393	483	343
12	.10	.10	.10	.10	.10	.10	627	910	132	379	478	343
13	.10	.10	.10	.10	.10	.10	667	699	244	375	510	343
14	.10	.10	.10	.10	.10	.10	735	613	303	375	528	339
15	.10	.10	.10	.10	.10	.10	850	537	312	375	523	307
16	.10	.10	.10	.10	.10	.10	880	384	325	370	523	285
17	.10	.10	.10	.10	.10	.10	880	316	357	384	528	285
18	.10	.10	.10	.10	.10	.10	885	348	397	424	528	258
19	.10	.10	.10	.10	.10	.10	895	366	415	474	514	249
20	.10	.10	.10	.10	.10	.10	940	366	420	487	505	249
21	.10	.10	.10	.10	.10	.10	1,180	330	424	501	505	240
22	.10	.10	.10	.10	.10	.10	1,220	316	424	510	474	240
23	.10	.10	.10	.10	.10	.10	1,160	289	420	523	460	240
24	.10	.10	.10	.10	.10	.10	1,160	276	420	528	460	244
25	.10	.10	.10	.10	.10	.10	1,220	276	424	523	451	240
26	.10	.10	.10	.10	.10	.10	1,200	276	447	528	451	240
27	.10	.10	.10	.10	.10	.10	891	276	451	532	451	240
28	.10	.10	.10	.10	.10	.10	775	276	451	532	451	235
29	.10	.10	.10	.10	------	.10	802	276	447	532	451	226
30	.10	.10	.10	.10	------	.10	627	280	447	532	451	199
31	.10	------	.10	.10	------	.10	------	262	------	532	456	------
TOTAL	3.10	3.00	3.10	3.10	2.80	3.10	17,854.0	16,784	9,244	14,230	15,265	9,452
MEAN	.10	.10	.10	.10	.10	.10	595	541	308	459	492	315
MAX	.10	.10	.10	.10	.10	.10	1,220	980	451	532	532	451
MIN	.10	.10	.10	.10	.10	.10	.10	262	123	370	451	199
AC-FT	6.1	6.0	6.1	6.1	5.6	6.1	35,410	33,290	18,340	28,230	30,280	18,750

CAL YR 1973 TOTAL 69,403.20 MEAN 190 MAX 572 MIN .10 AC-FT 137,700
WTR YR 1974 TOTAL 82,847.20 MEAN 227 MAX 1,220 MIN .10 AC-FT 164,300

13216500 NORTH FORK MALHEUR RIVER ABOVE BEULAH RESERVOIR, NEAR BEULAH, OREG.

LOCATION.—Lat 43°57'01", long 118°10'28", in NW¼NE¼ sec.4, T.19 S., R.37 E., Malheur County, on left bank 500 ft (152 m) upstream from Beulah Reservoir, 2.5 mi (4.0 km) upstream from Warm Springs Creek, 3.5 mi (5.6 km) northwest of Beulah, and at mile 18.0 (29.0 km).

DRAINAGE AREA.—355 mi² (919 km²).

PERIOD OF RECORD.—January to September 1914 (published as "at Scott's Ranch, near Beulah"), June 1936 to current year. Published as "above Agency Valley Reservoir, near Beulah", June 1936 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 3,351 ft (1,021.4 m) above mean sea level. Jan. 1 to Sept. 30, 1914, nonrecording gage and June 10, 1936, to Oct. 14, 1958, water-stage recorder at site 0.5 mi (0.8 km) upstream at different datums.

AVERAGE DISCHARGE.--38 years (1936-74), 130 ft³/s (3.68 m³/s), 94,180 acre-ft/yr (116 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 2,010 ft³/s (56.9 m³/s) Mar. 30, gage height, 5.43 ft (1.655 m); minimum, 29 ft³/s (0.82 m³/s) Aug. 26.

Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) Dec. 23, 1964, gage height, 8.30 ft (2.530 m), from floodmark, from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 9.4 ft (2.87 m) sometime during period Dec. 17-23, 1964 (ice jam); minimum discharge, 8.5 ft³/s (0.24 m³/s) Dec. 13, 1967, result of freezeup.

REMARKS.—Records good. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).—WSP 1934: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	72	542	47	198	180	955	605	459	173	71	50
2	38	40	226	42	175	168	803	641	459	166	73	52
3	38	38	165	42	173	136	690	641	484	157	73	52
4	38	45	138	42	173	144	614	636	524	144	71	55
5	39	55	123	42	155	150	584	650	572	138	66	54
6	41	66	115	42	115	166	568	708	548	140	64	56
7	43	61	175	42	125	150	528	749	520	148	67	56
8	42	66	155	42	135	120	532	785	473	146	67	60
9	41	67	94	42	140	110	544	830	438	205	66	59
10	41	92	98	44	140	130	524	780	410	173	63	59
11	42	115	130	50	136	175	532	672	403	163	64	60
12	43	168	110	60	138	218	556	609	424	155	64	60
13	42	133	105	80	130	215	528	556	442	136	62	62
14	42	110	98	170	136	200	528	500	466	122	55	60
15	42	128	98	1,130	130	250	560	463	473	110	62	60
16	42	128	98	1,430	136	331	576	424	470	99	56	59
17	42	133	199	875	132	576	614	403	456	94	55	59
18	42	135	155	636	128	544	686	382	438	88	60	59
19	42	86	105	580	134	512	713	351	417	82	63	62
20	47	80	128	431	118	449	700	322	396	79	67	63
21	51	90	123	337	124	428	680	304	372	74	67	62
22	48	92	120	319	116	442	668	286	334	74	63	59
23	51	72	113	295	85	442	699	286	310	73	63	60
24	54	82	92	277	95	438	713	292	286	67	60	59
25	51	78	100	268	120	480	681	313	268	66	58	58
26	49	82	52	247	134	484	614	358	250	63	58	58
27	48	82	56	232	122	564	568	442	229	66	55	58
28	48	90	75	220	136	600	528	492	215	70	52	60
29	55	130	110	203	------	623	504	492	195	74	52	60
30	49	320	103	200	------	1,540	528	480	188	76	52	60
31	52	------	82	215	------	1,060	------	470	------	71	53	------
TOTAL	1,382	2,936	4,083	8,682	3,787	12,025	18,518	15,922	11,919	3,492	1,922	1,751
MEAN	44.6	97.9	132	280	135	388	617	514	397	113	62.0	58.4
MAX	55	320	542	1,430	198	1,540	955	830	572	205	73	63
MIN	38	38	52	42	85	110	504	286	188	63	52	50
AC-FT	2,740	5,820	8,100	17,220	7,510	23,850	36,730	31,580	23,640	6,930	3,810	3,470

CAL YR 1973 TOTAL 31,158 MEAN 85.4 MAX 542 MIN 27 AC-FT 61,800
WTR YR 1974 TOTAL 86,419 MEAN 237 MAX 1,540 MIN 38 AC-FT 171,400

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	0900	3.50	925	3-30	0530	5.43	2,010
1-16	1900	5.40	1,990	5- 9	0830	3.37	860
2-17	2230	3.02	699	6- 5	1830	2.78	592

13217000 BEULAH RESERVOIR AT BEULAH, OREG.

LOCATION.--Lat 43°54'41", long 118°09'25", in SW¼SE¼ sec.15, T.19 S., R.37 E., Malheur County, in control house at dam on North Fork Malheur River, 0.2 mi (0.3 km) northwest of Beulah, and at mile 14.8 (23.8 km).

DRAINAGE AREA.--440 mi^2 (1,140 km^2), approximately.

PERIOD OF RECORD.--December 1935 to current year. Prior to October 1968, published as Agency Valley Reservoir at Beulah.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 59,960 acre-ft (73.9 hm^3) Apr. 6, elevation, 3,340.02 ft (1,018.038 m); minimum observed, 390 acre-ft (481,000 m^3) Oct. 1, elevation, 3,276.05 ft (998.540 m).
Period of record: Maximum contents observed, 62,770 acre-ft (77.4 hm^3) May 3, 1941, elevation, 3,341.30 ft (1,018.489 m); no contents Sept. 17 to Oct. 13, 1950, Aug. 28 to Oct. 4, 1955, Aug. 13 to Oct. 1, 1961, Sept. 21 to Oct. 5, 1968.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began December 1935. Capacity, 59,920 acre-ft (73.9 hm^3) between elevations 3,263.21 ft (994.626 m), bottom of outlet tunnel, and 3,340.0 ft (1,018.03 m), top of spillway gates; with gates open the capacity is 32,220 acre-ft (39.7 hm^3). No dead storage. Water is used for irrigation of lands below Juntura, on Vale project of Bureau of Reclamation.

COOPERATION.--Daily elevations furnished by Vale-Oregon Irrigation District, and capacity table furnished by Bureau of Reclamation.

REVISIONS.--WSP 1397: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	-	a300	-
Oct. 31	3,289.10	3,380	+3,050
Nov. 30	3,300.30	9,170	+5,790
Dec. 31	3,311.80	18,770	+9,600
CAL YR 1973	-	-	-4,740
Jan. 31	3,329.13	41,180	+22,410
Feb. 28	3,334.10	49,250	+8,070
Mar. 31	3,339.35	58,700	+9,450
Apr. 30	3,339.18	58,380	-320
May 31	3,339.03	58,100	-280
June 30	3,335.92	52,440	-5,660
July 31	3,327.08	38,080	-14,360
Aug. 31	3,317.27	24,890	-13,190
Sept.30	3,306.93	14,100	-10,790
WTR YR 1974	-	-	+13,770

a No gage-height record.

13217500 NORTH FORK MALHEUR RIVER AT BEULAH, OREG.

LOCATION.--Lat 43°34'28", long 118°09'08", in NW¼NE¼ sec.22, T.19 S., R.37 E., Malheur County, on left bank at Beulah, 0.3 mi (0.5 km) downstream from Agency Valley Dam, 12 mi (19 km) northwest of Juntura, and at mile 14.5 (23.3 km).

DRAINAGE AREA.--440 mi² (1,140 km²), approximately.

PERIOD OF RECORD.--June 1926 to current year. Published as "near Beulah" June 1926 to September 1935.

GAGE.--Water-stage recorder. Datum of gage is 3,261.20 ft (994.014 m) above mean sea level. Prior to Apr. 25, 1926, water-stage recorder at site 1 mi (2 km) downstream at different datum. Apr. 25, 1936, to Sept. 30, 1949, nonrecording gage at site 20 ft (6 m) downstream at datum 1.0 ft (0.3 m) higher. Oct. 1, 1949, to June 30, 1964, at present site at datum 1.0 ft (0.3 m) higher.

AVERAGE DISCHARGE.--39 years (1935-74), 140 ft³/s (3.96 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Mar. 31, gage height, 5.76 ft (1.756 m); minimum, 0.02 ft³/s (0.001 m³/s) Jan. 2.

Period of record: Maximum discharge, 7,000 ft³/s (198 m³/s) May 7, 1962, gage height, 8.4 ft (2.56 m) from floodmark, caused by failure of gates at Agency Valley Dam, from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of computation of peak flow over dam; no flow at times.

REMARKS.--Records good above 10 ft³/s (0.28 m³/s), fair below. Flow regulated since 1935 by Beulah Reservoir (see station 13217000). Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1397: 1927-32, 1934, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.08	.07	.03	.48	1.4	1,430	462	529	490	285	238
2	.05	.06	.07	.03	.48	1.4	1,270	462	532	487	283	238
3	.05	.06	.07	.06	.56	1.4	1,070	616	532	487	283	235
4	.05	.07	.06	.09	.64	1.4	952	708	532	483	283	235
5	.05	.06	.06	.10	.64	1.4	804	708	532	483	280	233
6	.05	.07	.06	.13	.72	1.4	686	708	532	469	280	230
7	.07	.07	.07	.19	.72	1.5	662	800	532	466	278	225
8	.13	.08	.07	.19	.80	1.7	595	888	532	441	278	221
9	.13	.06	.07	.16	.88	1.8	557	908	532	384	263	221
10	.13	.08	.06	.10	.88	1.8	511	908	532	345	255	225
11	.16	.06	.05	.10	.96	1.7	459	864	532	318	253	230
12	.16	.09	.05	.16	.96	2.0	405	836	543	298	253	226
13	.13	.08	.05	.16	1.0	4.9	490	686	504	270	255	228
14	.13	.06	.05	.16	1.0	70	557	525	497	260	255	228
15	.10	.07	.05	.29	1.1	144	557	455	501	260	270	228
16	.09	.07	.05	.36	1.2	309	557	408	501	278	280	225
17	.08	.07	.04	.40	1.4	434	557	393	490	285	263	225
18	.07	.07	.05	.40	1.7	463	609	393	476	285	255	223
19	.05	.07	.04	.40	1.5	553	637	393	490	285	240	223
20	.07	.07	.04	.48	1.7	519	637	393	497	285	233	223
21	.07	.07	.04	.56	1.5	466	641	393	497	285	230	223
22	.07	.07	.04	.64	1.5	466	700	393	497	280	233	221
23	.08	.07	.04	.72	1.5	466	772	390	497	273	230	221
24	.08	.07	.03	.64	1.4	466	792	390	497	278	250	223
25	.08	.07	.03	.34	1.2	469	792	390	497	280	258	225
26	.08	.07	.03	.31	1.4	550	792	387	497	280	260	213
27	.08	.07	.04	.34	1.4	619	724	452	494	283	245	205
28	.08	.07	.05	.37	1.4	664	623	487	494	285	238	205
29	.08	.07	.04	.37	------	661	567	511	490	285	240	205
30	.08	.08	.04	.40	------	1,010	494	525	490	285	240	205
31	.08	------	.03	.48	------	1,460	------	529	------	285	238	------
TOTAL	2.67	2.19	1.56	9.16	30.62	9,817.8	20,899	17,361	15,298	10,458	7,987	6,708
MEAN	.086	.073	.050	.30	1.09	317	697	560	510	337	258	224
MAX	.16	.09	.07	.72	1.7	1,460	1,430	908	543	490	285	238
MIN	.05	.06	.03	.03	.48	1.4	405	387	476	260	230	205
AC-FT	5.3	4.3	3.1	18	61	19,470	41,450	34,440	30,340	20,740	15,840	13,310

CAL YR 1973 TOTAL 37,582.92 MEAN 103 MAX 480 MIN 0 AC-FT 74,550
WTR YR 1974 TOTAL 88,575.80 MEAN 243 MAX 1,460 MIN .03 AC-FT 175,700

13220000 MALHEUR RIVER AT LITTLE VALLEY, NEAR HOPE, OREG.

LOCATION.--Lat 43°53'58", long 117°30'25", in SE¼SE¼ sec.24, T.19 S., R.42 E., Malheur County, on right bank 500 ft (152 m) downstream from highway bridge at Little Valley, 8 mi (13 km) southwest of Hope, 14 mi (23 km) southwest of Vale, and at mile 34.0 (54.7 km).

DRAINAGE AREA.--3,010 mi^3 (7,800 km^2), approximately.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,424.03 ft (738.844 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 198 ft^3/s (5.61 m^3/s), 143,500 acre-ft/yr (177 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Jan. 15, gage height, 5.82 ft (1.774 m); maximum gage height, 5.98 ft (1.823 m) Jan. 15 (backwater from ice); minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Nov.27 to Dec. 6, Dec. 8-13.

Period of record: Maximum discharge, 12,300 ft^3/s (348 m^3/s) Feb. 24, 1957, gage height, 11.5 ft (3.51 m), from floodmark, from rating curve extended above 5,500 ft^3/s (156 m^3/s) on basis of slope-area measurement of peak flow; minimum, 6.8 ft^3/s (0.19 m^3/s) Jan. 16, 1972.

The two greatest floods occurred March 1894 and March 1910, on basis of records for former station near Namorf.

REMARKS.--Records good. Flow regulated by Warmsprings and Beulah Reservoirs (see stations 13214500 and 13217000). Vale-Oregon Canal diverted 188,600 acre-ft (233 hm^3) above station at Namorf in sec.31, T.20 S., R.41 E., for supplying Bully Creek Reservoir and for irrigation. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1217: 1949(M), 1950(M). WSP 1397: 1950. WSP 1737: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	18	16	75	100	61	1,660	465	166	279	230	137
2	34	17	16	60	98	66	1,690	367	166	275	223	132
3	29	17	16	60	98	69	1,520	347	179	264	220	137
4	27	17	16	60	91	75	1,260	655	176	271	209	149
5	27	18	16	60	83	77	1,100	822	172	267	209	155
6	26	18	16	60	71	64	941	836	152	267	216	149
7	25	18	17	60	73	32	615	850	143	267	199	132
8	24	19	16	60	73	29	619	1,060	155	260	189	132
9	23	19	16	60	77	27	427	1,140	172	279	216	130
10	22	19	16	60	71	26	383	1,140	157	287	209	130
11	22	19	16	65	68	24	343	1,160	135	283	189	122
12	22	19	16	70	69	50	477	1,140	132	230	186	107
13	21	18	16	75	69	105	843	1,050	130	206	176	87
14	21	18	41	120	68	63	913	667	127	182	176	132
15	21	18	54	1,400	68	337	1,050	510	169	166	179	132
16	21	17	54	1,460	68	1,430	1,140	379	176	155	186	132
17	21	17	57	920	66	1,120	1,140	226	199	155	199	91
18	21	18	73	613	66	1,130	1,090	143	192	163	213	79
19	20	18	77	969	69	983	1,120	143	216	176	220	105
20	20	18	81	579	69	927	1,090	155	237	202	209	89
21	20	18	89	371	68	780	1,090	152	237	206	195	87
22	20	17	81	264	73	691	1,310	137	237	213	195	85
23	20	17	77	199	69	661	1,320	114	245	202	172	87
24	19	17	103	176	66	637	1,330	107	245	220	155	83
25	19	17	96	160	63	619	1,340	89	237	220	163	79
26	19	17	79	146	64	613	1,370	91	230	213	163	83
27	18	16	71	132	40	661	1,320	93	252	213	155	83
28	18	16	83	122	56	728	899	124	264	220	137	83
29	19	16	103	112	------	741	794	155	264	234	132	93
30	18	16	105	103	------	983	728	163	264	234	132	98
31	18	------	100	100	------	1,460	------	166	------	227	143	------
TOTAL	705	527	1,633	8,771	2,014	15,269	31,122	14,646	5,826	7,036	5,795	3,320
MEAN	22.7	17.6	52.7	283	71.9	493	1,037	472	194	227	187	111
MAX	50	19	105	1,460	100	1,460	1,690	1,160	264	287	230	155
MIN	18	16	16	60	40	24	343	89	127	155	132	79
AC-FT	1,400	1,050	3,240	17,400	3,990	30,290	61,730	29,050	11,560	13,960	11,490	6,590

CAL YR 1973 TOTAL 40,145 MEAN 110 MAX 982 MIN 16 AC-FT 79,630
WTR YR 1974 TOTAL 96,664 MEAN 265 MAX 1,690 MIN 16 AC-FT 191,700

13226500 BULLY CREEK AT WARMSPRINGS, NEAR VALE, OREG.

LOCATION.--Lat 44°01'10", long 117°27'35", in SE¼NW¼ sec.9, T.18 S., R.43 E., Malheur County, on left bank 400 ft (122 m) downstream from Cottonwood Creek, 2.7 mi (4.3 km) upstream from Bully Creek Dam, 11.4 mi (18.3 km) northwest of Vale, and at mile 14.7 (23.7 km).

DRAINAGE AREA.--539 mi^2 (1,396 km^2).

PERIOD OF RECORD.--September 1903 to February 1904, February 1905 to March 1907, February 1910, January 1911 to May 1917, March 1922 to June 1923, October 1963 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Vale" 1903, 1907, and as "above Vale" 1904-6, 1910.

GAGE.--Water-stage recorder. Datum of gage is 2,527.21 ft (770.294 m) above mean sea level (Bureau of Reclamation bench mark). Prior to July 1, 1923, nonrecording gages within 0.5 mi (0.8 km) downstream at different datums.

AVERAGE DISCHARGE.--17 years (1905-6, 1911-16, 1963-74), 43.6 ft^3/s (1.23 m^3/s), 31,590 acre-ft/yr (39.0 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,170 ft^3/s (61.5 m^3/s) Jan. 15, gage height, 4.31 ft (1.314 m); no flow part of each day Aug. 25, 26.

Period of record: Maximum discharge, 12,800 ft^3/s (362 m^3/s) Dec. 22, 1964, gage height, 8.68 ft (2.646 m), from rating curve extended above 200 ft^3/s (5.66 m^3/s) on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records fair. No regulation. Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1317: Drainage area (former site). WSP 1397: 1904-6, 1911, 1914, 1915.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.3	63	25	125	66	422	30	9.6	2.7	.65	3.0
2	2.2	1.1	77	25	103	64	375	28	4.2	1.9	.75	2.2
3	2.2	1.3	50	25	97	50	304	28	5.7	1.9	.80	1.7
4	1.9	2.7	40	25	95	52	265	31	6.5	3.0	.70	2.4
5	2.2	4.5	34	25	79	56	250	29	7.0	3.6	.60	2.2
6	2.2	4.9	29	25	64	60	250	28	6.5	4.9	.70	2.7
7	2.4	3.3	27	25	69	50	220	28	7.0	6.5	.95	3.3
8	2.4	3.9	38	25	70	45	205	24	6.5	7.5	.70	3.0
9	2.4	3.0	36	25	69	42	199	22	5.3	9.0	.70	3.0
10	2.4	3.0	30	25	66	48	184	21	4.2	8.0	1.3	2.7
11	2.7	3.6	29	27	64	65	163	16	5.3	9.0	2.2	1.7
12	3.0	3.9	28	30	66	82	150	16	5.3	6.1	4.5	.80
13	3.0	4.9	26	40	63	78	123	15	4.9	5.3	5.7	.95
14	3.0	8.0	24	70	61	76	86	15	5.7	6.1	6.1	.95
15	2.7	8.5	22	1,000	63	100	83	14	6.1	4.5	6.1	.95
16	3.0	8.0	21	1,310	58	164	81	14	7.5	5.7	4.5	2.4
17	3.0	8.5	22	1,090	57	268	75	16	7.0	4.9	3.9	2.4
18	3.0	11	88	586	57	296	70	14	5.3	3.6	1.9	2.2
19	3.0	11	60	565	61	241	63	17	4.5	4.2	.95	.65
20	2.2	11	51	494	55	205	55	19	4.5	4.9	.50	.60
21	1.5	11	51	288	55	196	54	17	4.9	5.3	.27	2.2
22	1.7	9.6	49	244	55	187	49	18	5.3	5.3	.45	.95
23	1.3	9.0	45	223	47	169	40	15	5.3	3.9	.30	.95
24	1.1	9.6	42	202	49	160	25	16	3.6	1.3	.21	1.1
25	1.5	10	40	202	51	155	23	14	3.0	.50	.15	2.7
26	1.3	11	38	178	49	155	23	14	3.0	.50	.30	1.9
27	1.3	10	40	155	50	155	22	12	3.3	.45	1.1	1.3
28	1.1	10	38	140	50	160	24	13	2.7	.40	.80	2.2
29	1.1	11	49	130	------	172	27	14	2.2	.50	3.0	3.0
30	1.1	16	40	118	------	650	28	15	2.4	.50	4.9	3.6
31	1.1	------	30	115	------	530	------	9.6	------	.60	3.9	------
TOTAL	65.2	214.6	1,257	7,457	1,848	4,797	3,938	582.6	154.3	122.55	59.58	59.70
MEAN	2.10	7.15	40.5	241	66.0	155	131	18.8	5.14	3.95	1.92	1.99
MAX	3.0	16	88	1,310	125	650	422	31	9.6	9.0	6.1	3.6
MIN	1.1	1.1	21	25	47	42	22	9.6	2.2	.40	.15	.60
AC-FT	129	426	2,490	14,790	3,670	9,510	7,810	1,160	306	243	118	118

CAL YR 1973 TOTAL 7,482.10 MEAN 20.5 MAX 1,000 MIN .50 AC-FT 14,840
WTR YR 1974 TOTAL 20,555.53 MEAN 56.3 MAX 1,310 MIN .15 AC-FT 40,770

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-18	0400	1.93	122	3-18	0530	2.39	356
1-15	2000	4.31	2,170	3-30	1000	3.4	1,080

13226800 BULLY CREEK RESERVOIR NEAR VALE, OREG.

LOCATION.--Lat 44°00'50", long 117°23'45", in SE¼SW¼ sec.12, T.18 S., R.43 E., Malheur County, U.S. Bureau of Reclamation land, in control chamber at dam on Bully Creek, 8.0 mi (12.9 km) northwest of Vale, and at mile 12.0 (19.3 km).

DRAINAGE AREA.--547 mi² (1,417 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 29,980 acre-ft (37.0 hm³) Apr. 24,25, elevation, above 2,516.00 ft (766.877 m); no usable contents Oct. 1.

Period of record: Maximum contents not determined, occurred during period Apr. 4 to May 2, 1969, elevation, above 2,516.00 ft (766.877 m), spillway crest; no usable contents Sept. 14 to Oct. 1, 1973.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Feb. 1, 1963. Capacity, 29,980 acre-ft (37.0 hm³) between elevations 2,456.58 ft (748.766 m), outlet works, and 2,516.00 ft (766.877 m), spillway crest. Dead storage, 1,650 acre-ft (2.03 hm³) below elevation 2,456.58 ft (748.766 m). Figures given herein do not include dead storage. Water used for irrigation lands of Vale-Oregon Irrigation District. Bully Creek Reservoir feed canal diverts from Malheur River by way of Vale Oregon canal (see station 13220000).

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	-	0	-
Oct. 31	-	a1,990	+1,990
Nov. 30	2,476.70	4,300	+2,310
Dec. 31	2,488.10	8,920	+4,620
CAL YR 1973	-	-	+3,310
Jan. 31	2,506.90	21,700	+12,780
Feb. 28	-	a20,500	-1,200
Mar. 31	2,514.10	28,140	+7,640
Apr. 30	2,515.70	29,680	+1,540
May 31	2,513.50	27,570	-2,110
June 30	2,508.30	22,890	-4,680
July 31	2,502.20	17,920	-4,970
Aug. 31	2,494.90	12,840	-5,080
Sept.30	2,489.20	9,500	-3,340
WTR YR 1974	-	-	+9,500

a Interpolated.

13269000 SNAKE RIVER AT WEISER, IDAHO

LOCATION.--Lat 44°14'44", long 116°58'48", in NW¼SE¼ sec.31, T.11 N., R.5 W., Washington County, on right bank at upstream side of U.S. Highway 30N bridge at Weiser, 0.7 mi (1.1 km) downstream from Weiser River, and at mile 351.3 (565.2 km).

DRAINAGE AREA.--69,200 mi^2 (179,230 km^2), approximately. Mean altitude, 5,400 ft (1,646 m).

PERIOD OF RECORD.--October 1910 to current year. Fragmentary gage-height record obtained by U.S. Weather Bureau since 1895. Monthly discharge only for October 1910, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 2,086.64 ft (636.008 m) above mean sea level. Prior to Oct. 1, 1914, nonrecording gage 0.2 mi (0.3 km) downstream at different datum. Oct. 1, 1914, to Oct. 11, 1933, nonrecording gage, and Oct. 12, 1933, to Apr. 13, 1964, water-stage recorder, at site 0.3 mi (0.5 km) upstream at same datum.

AVERAGE DISCHARGE.--64 years, 18,100 ft^3/s (513 m^3/s), 13,110,000 acre-ft/yr (16,200 hm^3/yr); 15-year base period (1952-67), 16,720 ft^3/s (4,735 m^3/s).

EXTREMES.--Current year: Maximum discharge, 57,600 ft^3/s (1,630 m^3/s) Apr. 2 (gage height, 10.74 ft or 3.274 m); maximum gage height, 14.46 ft (4.407 m) Jan. 13 (backwater from ice); minimum, 9,880 ft^3/s (280 m^3/s) Aug. 2 (gage height, 2.46 ft or 1.845 m).

Period of record: Maximum discharge, 84,500 ft^3/s (2,390 m^3/s) Apr. 29, 1952 (gage height, 14.67 ft or 4.471 m, site and datum then in use); minimum observed, 5.100 ft^3/s (144 m^3/s) Aug. 5, 1924 (gage height, 1.35 ft or 0.411 m, site and datum then in use).

Flood of Mar. 3, 1910, reached a stage of 17.1 ft (5.21 m) at site and datum 0.3 mi (0.5 km) upstream, from reading on old U.S. Weather Bureau gage (discharge, 120,000 ft^3/s or 3,398 m^3/s). Flood in June 1894 was considerably higher.

REMARKS.--Records good. Flow regulated by many reservoirs above station. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 3,650,000 acres (1,477,200 hm^2) of which about 742,000 acres (300,300 hm^2) are by withdrawals from ground water. In addition, approximately 7,300 acres (2,954 hm^2) are irrigated below station by diversion from Weiser River (1966 determination). Records of water temperatures and chemical analyses for the current year are published in Part 2 of the Idaho district report.

REVISIONS (WATER YEARS).--WSP 1317: 1918. WSP 1567: 1910(M).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 24 to Sept. 30)

2.5	9,600	6.0	26,900
3.0	11,700	8.0	39,000
4.0	16,400	11.0	59,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,300	12,700	18,300	17,800	23,700	29,200	53,100	44,700	33,400	33,600	10,200	11,600
2	14,600	13,500	19,800	15,900	22,100	31,800	55,800	44,100	34,600	32,500	10,200	11,800
3	14,800	13,700	18,100	14,900	21,100	29,800	53,700	43,300	36,800	30,500	10,600	11,800
4	14,300	13,200	16,900	14,400	21,500	26,300	51,200	43,000	36,900	28,400	10,700	11,700
5	14,100	13,400	16,800	14,900	21,300	27,300	49,900	41,800	38,400	26,000	10,900	11,800
6	14,300	13,600	16,700	16,300	21,300	30,600	48,600	43,400	40,900	25,300	10,600	12,000
7	14,800	14,100	17,600	17,100	21,300	32,400	48,800	44,900	38,600	25,800	11,400	12,300
8	15,000	15,600	19,400	15,500	21,000	32,500	48,700	45,700	36,300	24,500	11,000	12,500
9	15,200	14,900	18,100	15,400	21,400	32,300	47,500	47,900	33,900	23,700	11,000	12,700
10	15,100	15,200	18,000	16,000	22,000	34,800	48,200	48,100	33,700	21,800	10,900	12,500
11	15,400	16,700	17,900	16,100	22,100	35,100	45,600	43,700	33,100	22,300	11,300	12,400
12	15,800	18,000	18,200	15,600	21,000	36,800	44,100	43,500	33,000	21,000	11,600	12,800
13	15,700	19,500	18,000	14,500	20,700	39,500	45,500	43,300	33,000	19,800	11,400	13,000
14	15,300	20,000	17,800	16,400	21,700	38,200	44,600	42,500	33,500	18,700	11,300	13,100
15	15,200	19,300	16,100	25,600	22,200	38,500	46,600	40,200	33,000	17,200	11,300	13,300
16	14,800	19,900	16,300	36,300	23,100	39,900	47,900	38,300	33,500	15,200	11,100	13,600
17	14,000	20,100	17,700	39,900	24,500	42,900	47,500	37,500	34,800	13,700	10,800	13,500
18	14,700	19,000	22,700	37,400	24,300	51,200	46,900	35,900	34,700	12,400	11,300	13,900
19	13,600	18,200	19,900	37,800	24,400	52,500	46,900	33,600	35,200	12,000	11,300	13,600
20	13,500	17,100	18,400	33,100	25,800	50,600	46,400	33,100	35,300	12,100	11,200	13,400
21	13,200	16,100	18,400	27,500	28,300	48,700	49,500	31,600	35,200	12,000	11,300	13,400
22	13,500	16,100	20,100	24,600	26,900	49,100	48,000	31,200	35,800	11,800	11,500	13,400
23	13,100	16,100	20,200	22,900	25,600	47,600	47,600	29,600	36,000	11,400	11,400	13,800
24	13,800	16,000	19,400	21,500	24,500	45,500	50,500	30,900	36,800	11,300	11,300	13,600
25	13,500	15,900	18,400	21,000	24,300	44,400	54,100	31,100	37,500	11,200	11,400	13,300
26	13,600	16,000	17,500	21,000	25,400	45,400	51,200	32,600	38,500	11,100	11,700	13,600
27	13,200	15,600	17,500	20,800	26,800	46,100	48,200	34,000	39,000	11,000	11,700	13,300
28	13,400	15,600	17,200	20,100	26,700	42,600	46,000	36,000	37,400	10,700	11,400	13,500
29	13,100	16,800	17,700	18,700	------	43,000	43,900	37,000	34,700	10,700	11,300	13,600
30	12,900	17,700	16,300	19,300	------	47,400	40,200	36,800	33,600	10,500	11,300	13,700
31	13,100	------	18,000	19,400	------	51,600	------	33,700	------	10,400	11,300	------
TOTAL	441,900	489,600	563,400	667,700	655,000	1,243.6M	1,446.7M	1,203.0M	1,067.1M	558,600	345,700	388,500
MEAN	14,250	16,320	18,170	21,540	23,390	40,120	48,220	38,810	35,570	18,020	11,150	12,950
MAX	15,800	20,100	22,700	39,900	28,300	52,500	55,800	48,100	40,900	33,600	11,700	13,900
MIN	12,900	12,700	16,100	14,400	20,700	26,300	40,200	29,600	33,000	10,400	10,200	11,600
AC-FT	876,500	971,100	1,118M	1,324M	1,299M	2,467M	2,870M	2,386M	2,117M	1,108M	685,700	770,600

CAL YR 1973 TOTAL 5,773,000 MEAN 15,820 MAX 35,500 MIN 8,620 AC-FT 11,450,000
WTR YR 1974 TOTAL 9,070,800 MEAN 24,850 MAX 55,800 MIN 10,200 AC-FT 17,990,000

BURNT RIVER BASIN

13269300 NORTH FORK BURNT RIVER NEAR WHITNEY, OREG.

LOCATION.--Lat 44°36'00", long 118°15'10", in NE¼ sec.23, T.11 S., R.36 E., Baker County, Wallowa Whitman National Forest, on right bank 0.1 mi (0.2 km) upstream from Petticoat Creek, 1.0 mi (1.6 km) downstream from U.S. Bureau of Reclamation damsite, 4.5 mi (7.2 km) southeast of Whitney, and 11.5 mi (18.5 km) northwest of Unity.

DRAINAGE AREA.--110 mi^2 (285 km^2), approximately.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft (1,220 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 52.7 ft^3/s (1.49 m^3/s), 38,180 acre-ft/yr (47.1 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Mar. 30, gage height, 3.86 ft (1.177 m); maximum gage height, 4.53 ft (1.381 m) Jan. 16 (ice jam); minimum discharge, 0.96 ft^3/s (0.027 m^3/s) Sept. 27.

Period of record: Maximum discharge, 1,190 ft^3/s (33.7 m^3/s) Apr. 6, 1971, gage height, 4.31 ft (1.314 m); maximum gage height, 4.95 ft (1.509 m) Jan. 29, 1965 (ice jam); minimum discharge, 0.17 ft^3/s (0.005 m^3/s) Nov. 21, 1967, but may have been less when stage fell below inlets July 19 to Aug. 17, 1966.

REMARKS.--Records good. Some regulation from irrigation and mining operations upstream. A transmountain diversion from headwaters of Middle Fork John Day River delivers as much as 12 ft^3/s (0.34 m^3/s) to North Fork Burnt River above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	14	47	19	55	48	528	488	132	20	5.4	1.9
2	1.3	7.3	43	19	51	51	425	476	132	18	5.6	1.8
3	1.2	5.9	36	19	53	45	333	424	134	13	6.0	1.9
4	1.3	5.9	30	20	47	50	277	419	144	14	5.4	1.9
5	1.4	6.3	27	20	46	47	271	457	196	13	5.3	1.8
6	1.5	7.3	26	20	42	47	285	513	148	14	6.4	2.1
7	1.6	7.7	28	22	48	43	277	504	117	18	5.0	1.8
8	1.5	8.9	30	22	54	46	349	529	91	19	4.5	1.8
9	1.5	9.3	58	23	60	41	401	486	82	31	4.2	1.9
10	1.4	15	34	24	55	46	338	363	73	37	3.8	1.8
11	1.6	36	29	26	50	43	374	287	69	37	3.7	1.2
12	1.7	98	25	31	48	50	391	252	69	32	3.4	1.1
13	2.1	66	26	37	43	57	316	213	66	27	3.1	1.2
14	2.3	40	23	48	45	57	360	185	60	24	3.0	1.1
15	2.3	33	23	84	40	61	449	170	53	22	3.0	1.2
16	2.6	54	23	500	45	103	505	151	45	20	4.6	1.2
17	2.3	60	33	400	42	232	554	138	36	22	4.1	1.1
18	2.3	41	34	322	42	326	618	129	36	21	4.0	1.1
19	2.3	29	28	224	43	326	558	117	32	20	3.8	1.2
20	3.1	21	31	163	42	274	475	102	27	19	3.6	1.3
21	3.6	26	29	125	40	246	448	101	26	15	3.3	1.3
22	3.6	24	32	110	38	262	495	102	25	12	3.2	1.3
23	4.1	21	30	98	36	266	529	119	24	10	3.0	1.3
24	4.1	20	24	85	39	310	563	141	23	9.3	2.8	1.3
25	4.1	20	23	83	48	353	522	165	24	8.6	2.7	1.2
26	4.1	20	21	72	46	402	426	219	28	8.2	2.6	1.1
27	4.1	20	26	67	45	546	362	251	28	7.6	2.3	1.0
28	4.1	20	31	64	43	551	306	208	25	7.1	2.4	1.0
29	4.6	21	29	71	------	497	307	182	23	6.5	2.1	1.1
30	4.3	27	29	74	------	821	389	164	22	6.1	2.1	1.2
31	5.9	------	22	55	------	650	------	144	------	5.5	1.9	------
TOTAL	83.2	784.6	930	2,947	1,286	6,897	12,431	8,199	1,990	536.9	116.3	42.2
MEAN	2.68	26.2	30.0	95.1	45.9	222	414	264	66.3	17.3	3.75	1.41
MAX	5.9	98	58	500	60	821	618	529	196	37	6.4	2.1
MIN	1.2	5.9	21	19	36	41	271	101	22	5.5	1.9	1.0
AC-FT	165	1,560	1,840	5,850	2,550	13,680	24,660	16,260	3,950	1,060	231	84

CAL YR 1973 TOTAL 9,540.14 MEAN 26.1 MAX 217 MIN .29 AC-FT 18,920
WTR YR 1974 TOTAL 36,243.20 MEAN 99.3 MAX 821 MIN 1.0 AC-FT 71,890

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-16	1230	not determined		4-18	0200	3.19	704
3-30	1800	3.86	1,010	5- 8	0200	2.92	582

13270800 SOUTH FORK BURNT RIVER ABOVE BARNEY CREEK, NEAR UNITY, OREG.

LOCATION.--Lat 44°24'20", long 118°18'20", in S½ sec.28, T.13 S., R.36 E., Baker County, Wallowa Whitman National Forest, on right bank 300 ft (91 m) upstream from Barney Creek and 6 mi (10 km) southwest of Unity.

DRAINAGE AREA.--38.5 mi² (99.7 km²).

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,347.06 ft (1,324.984 m) above mean sea level (levels by Bureau of Reclamation). Prior to July 18, 1963, nonrecording gage at site 6 ft (2 m) upstream at datum 0.16 ft (0.049 m) higher.

AVERAGE DISCHARGE.--11 years, 28.1 ft³/s (0.80 m³/s), 20,360 acre-ft/yr (25.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 120 ft³/s (3.40 m³/s) May 9, gage height, 1.76 ft (0.536 m); maximum gage height, 3.57 ft (1.088 m) Jan. 10 (backwater from ice); minimum discharge, 12 ft³/s (0.34 m³/s) Dec. 26.

Period of record: Maximum discharge, 186 ft³/s (5.27 m³/s) Apr. 29, 1965, gage height, 1.98 ft (0.604 m); maximum gage height, 3.57 ft (1.088 m) Jan. 10, 1974 (backwater from ice); minimum discharge, 12 ft³/s (0.34 m³/s) Jan. 23, 24, 1969, Dec. 8, 1972, Dec. 26, 1973.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	24	15	20	22	59	70	82	35	27	26
2	19	19	21	15	19	21	51	73	84	35	28	26
3	19	19	21	15	19	21	46	73	88	33	27	26
4	19	20	20	14	20	20	42	73	90	32	27	26
5	19	21	20	15	19	20	39	77	94	32	27	26
6	19	22	20	17	21	20	38	88	90	33	27	25
7	19	20	21	19	20	20	36	92	84	32	27	25
8	19	21	19	21	19	19	36	101	79	33	26	25
9	19	22	18	23	19	19	39	115	73	33	26	25
10	19	24	20	23	19	20	38	101	70	32	26	26
11	19	27	20	23	19	21	39	84	70	32	26	25
12	19	30	19	23	19	21	41	75	73	32	26	25
13	19	24	19	25	19	20	41	68	75	31	26	25
14	19	22	18	30	19	20	42	67	75	30	26	25
15	19	22	18	35	19	20	47	61	73	30	26	25
16	19	23	19	40	20	21	52	56	71	30	26	25
17	19	22	20	45	20	23	58	52	67	30	26	25
18	19	22	18	40	20	24	65	50	65	29	26	25
19	19	20	18	29	20	26	64	47	61	29	26	25
20	20	20	19	27	20	28	61	44	58	29	26	25
21	19	21	19	25	20	29	59	42	53	28	26	25
22	19	20	19	24	21	29	65	43	51	28	25	25
23	21	20	18	22	20	30	71	44	48	28	25	25
24	20	20	18	19	20	31	73	50	46	28	25	25
25	19	21	17	20	21	33	70	62	43	27	25	24
26	19	20	15	21	21	37	67	82	39	27	25	24
27	19	20	19	21	20	42	61	94	38	27	25	24
28	21	20	19	20	21	46	55	94	37	27	25	24
29	19	20	18	20	------	47	51	88	36	27	25	24
30	19	21	17	20	------	67	58	86	36	28	25	24
31	26	------	16	20	------	68	------	82	------	27	25	------
TOTAL	602	645	586	726	554	885	1,564	2,234	1,949	934	804	750
MEAN	19.4	21.5	18.9	23.4	19.8	28.5	52.1	72.1	65.0	30.1	25.9	25.0
MAX	26	30	24	45	21	68	73	115	94	35	28	26
MIN	19	19	15	14	19	19	36	42	36	27	25	24
AC-FT	1,190	1,280	1,160	1,440	1,100	1,760	3,100	4,430	3,870	1,850	1,590	1,490

CAL YR 1973 TOTAL 8,065 MEAN 22.1 MAX 35 MIN 15 AC-FT 16,000
WTR YR 1974 TOTAL 12,233 MEAN 33.5 MAX 115 MIN 14 AC-FT 24,260

13272500 UNITY RESERVOIR NEAR UNITY, OREG.

LOCATION.--Lat 44°30'20", long 118°11'00", in SW¼SE¼ sec.21, T.12 S., R.37 E., Baker County, at Unity Dam on Burnt River, 500 ft (152 m) downstream from Job Creek, 0.5 mi (0.8 km) downstream from confluence of North, Middle, and South Forks of Burnt River, 4.5 mi (7.2 km) north of Unity, and at mile 63.6 (102.3 km).

DRAINAGE AREA.--309 mi^2 (800 km^2).

PERIOD OF RECORD.--March 1938 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (Bureau of Reclamation bench mark). Prior to Nov. 4, 1941, reference mark or mercury pressure gage at same site and datum.

EXTREMES.--Current year: Maximum contents observed, 25,680 acre-ft (31.7 hm^3) June 6,7, elevation, 3,820.50 ft (1,164.488 m); minimum observed, 697 acre-ft (859,000 m^3) Oct. 1,2, elevation, 3,780.50 ft (1,152.296 m).

Period of record: Maximum contents observed, 26,770 acre-ft (33.0 hm^3) May 21, 1971, elevation, 3,821.62 ft (1,164.830 m); no contents Sept. 5 to Oct. 4, 1955.

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway and outlet works, completed by Bureau of Reclamation in 1937; storage began Feb. 19, 1938. Capacity, 25,200 acre-ft (31.1 hm^3) between elevations 3,776.5 ft (1,151.08 m), bottom of outlet gates, and 3,820.0 ft (1,164.34 m), top of radial gates on spillway when closed. Dead storage, 600 acre-ft (740,000 m^3) below elevations 3,776.5 ft (1,151.08 m). Records given herein represent usable contents. Water used for irrigation in the Burnt River Irrigation District near Hereford and Bridgeport.

COOPERATION.--Data for computing capacity table furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	3,780.50	697	-
Oct. 31	3,783.60	1,500	+803
Nov. 30	-	-	-
Dec. 31	3,800.96	10,210	-
CAL YR 1973	-	-	+2,280
Jan. 31	3,809.56	16,340	+6,130
Feb. 28	3,808.40	15,450	-890
Mar. 31	3,819.22	24,510	+9,060
Apr. 30	3,819.18	24,470	-40
May 31	3,820.48	25,660	+1,190
June 30	3,817.86	23,280	-2,380
July 31	3,811.34	17,730	-5,550
Aug. 31	3,802.12	10,980	-6,750
Sept.30	3,791.65	4,820	-6,160
WTR YR 1974	-	-	+4,120

† Gages read between 1600 and 1830 hrs Oct. 1 to Dec. 22.
Gages read between 0600 and 0930 hrs Dec. 29 to Sept. 30.

13273000 BURNT RIVER NEAR HEREFORD, OREG.

LOCATION.--Lat 44°30'20", long 118°10'55", in SE¼ sec.21, T.12 S., R.37 E., Baker County, on left bank 800 ft (244 m) downstream from Unity Dam, 0.4 mi (0.6 km) upstream from Van Cleve ditch, 7 mi (11 km) west of Hereford, and at mile 63.5 (102.2 km).

DRAINAGE AREA.--309 mi^2 (800 km^2).

PERIOD OF RECORD.--March to September 1915, April to September 1916, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 3,758.19 ft (1,145.496 m) above mean sea level. Oct. 1, 1943, to Oct. 31, 1966, water-stage recorder at site 450 ft (137 m) downstream at datum 1.44 ft (0.439 m) lower. See WSP 1317 or 1737 for history of changes prior to Oct. 1, 1943.

AVERAGE DISCHARGE.--46 years (1928-74), 83.3 ft^3/s (2.36 m^3/s), 60,350 acre-ft/yr (74.5 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 842 ft^3/s (23.8 m^3/s) Apr. 1, gage height, 7.47 ft (2.277 m); minimum, 0.46 ft^3/s (0.013 m^3/s) Oct. 1, 3-6.

Period of record: Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) Apr. 17, 1943, gage height, 8.79 ft (2.679 m), present datum, from rating curve extended above 1,300 ft^3/s (36.8 m^3/s); maximum gage height, 9.29 ft (2.832 m), present datum, Apr. 16, 1943, just before concrete control washed out; no flow at times; minimum discharge before construction of Unity Dam, 1.6 ft^3/s (0.045 m^3/s) Aug. 31, 1935.

REMARKS.--Records excellent. Flow regulated since 1938 by Unity Reservoir (see sta 13272500). Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 903: 1939. WSP 1397: 1916, 1930, 1930(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.72	1.2	1.9	136	111	778	535	246	135	135	139
2	.50	.67	1.2	4.2	140	112	715	596	225	133	133	144
3	.46	.72	1.2	12	136	112	596	621	205	131	133	143
4	.46	.67	1.3	16	135	113	469	580	210	134	132	142
5	.46	.67	1.3	26	134	113	459	524	223	134	132	135
6	.54	.67	1.1	31	133	114	480	550	247	133	133	131
7	.67	.63	1.1	31	131	114	476	573	243	132	131	130
8	.63	.63	1.1	32	131	113	498	587	244	135	132	129
9	.67	.67	1.1	32	128	111	557	604	223	135	130	127
10	.72	.67	1.1	32	128	108	609	602	193	134	132	124
11	.67	.63	1.2	32	128	107	561	585	162	133	130	123
12	.72	.63	1.2	32	127	106	560	461	158	132	132	122
13	.82	.63	1.4	32	126	159	552	385	158	132	131	121
14	.82	.63	1.4	32	126	191	548	329	158	131	130	118
15	.82	.67	1.7	32	126	186	569	312	153	134	140	114
16	.88	.88	1.6	40	125	187	609	245	152	135	140	113
17	.82	.82	1.8	44	125	198	649	192	147	133	137	112
18	.88	.88	1.7	44	125	171	719	179	144	132	136	111
19	.88	.82	1.8	55	124	184	756	178	144	131	132	110
20	.94	.92	1.8	66	121	201	708	160	135	130	136	109
21	.94	.77	1.8	85	120	195	633	145	137	130	135	108
22	1.0	.72	1.6	131	119	197	653	134	140	131	134	107
23	1.1	.94	1.6	191	118	201	672	107	138	133	133	106
24	1.1	1.2	1.7	215	117	207	696	119	137	132	132	101
25	1.0	1.2	1.7	226	116	251	714	145	139	131	131	94
26	.88	1.1	1.7	232	114	329	684	172	140	132	134	91
27	.72	1.2	1.8	214	110	430	617	212	139	133	137	91
28	.72	1.2	1.8	203	110	489	524	245	139	131	136	85
29	.77	1.2	1.8	202	------	507	488	238	140	132	136	81
30	.77	1.1	1.8	202	------	633	509	243	138	131	136	79
31	.72	------	1.8	163	------	742	------	248	------	136	138	------
TOTAL	23.54	24.76	46.4	2,691.1	3,509	6,992	18,058	10,806	5,157	4,111	4,149	3,440
MEAN	.76	.83	1.50	86.8	125	226	602	349	172	133	134	115
MAX	1.1	1.2	1.8	232	140	742	778	621	247	136	140	144
MIN	.46	.63	1.1	1.9	110	106	459	107	135	130	130	79
AC-FT	47	49	92	5,340	6,960	13,870	35,820	21,430	10,230	8,150	8,230	6,820

CAL YR 1973 TOTAL 15,766.46 MEAN 43.2 MAX 215 MIN .46 AC-FT 31,270
WTR YR 1974 TOTAL 59,007.80 MEAN 162 MAX 778 MIN .46 AC-FT 117,000

13274200 BURNT RIVER NEAR BRIDGEPORT, OREG.

LOCATION.--Lat 44°32'27", long 117°41'10", in NW¼NW¼ sec.10, T.12 S., R.41 E., Baker County, on left bank 0.5 mi (0.8 km) downstream from Dark Canyon, 4.6 mi (7.4 km) upstream from Deer Creek, 5.0 mi (8.0 km) northeast of Bridgeport, and at mile 37.1 (59.7 km).

DRAINAGE AREA.--650 mi² (1,680 km²), approximately.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,223.22 ft (982.437 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--18 years, 106 ft³/s (3.00 m³/s), 76,800 acre-ft/yr (94.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,180 ft³/s (33.4 m³/s) Apr. 2, gage height, 5.42 ft (1.652 m); maximum gage height, 6.26 ft (1.908 m) Jan. 17 (ice jam); minimum daily discharge, 13 ft³/s (0.37 m³/s) Jan. 6.

Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) Apr. 9, 1971, gage height, 6.40 ft (1.951 m); minimum, 5.2 ft³/s (0.15 m³/s) Dec. 5, 1972.

REMARKS.--Records excellent. Flow regulated since 1938 by Unity Reservoir (see stat 13272500). Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	38	24	287	158	1,050	641	250	97	104	78
2	25	18	34	16	228	182	1,110	650	250	104	111	81
3	25	18	31	15	216	186	1,020	714	251	104	106	83
4	25	17	27	15	211	168	875	747	224	104	105	90
5	24	20	25	15	200	162	702	715	227	104	106	83
6	24	22	24	13	179	161	656	632	242	107	101	89
7	23	23	26	14	198	159	642	649	247	128	104	91
8	22	25	27	18	193	153	639	681	245	123	95	89
9	21	25	27	21	188	148	652	699	251	136	80	97
10	22	28	23	30	187	148	689	711	254	147	76	95
11	22	30	23	45	185	149	765	680	226	153	85	91
12	25	35	23	50	184	161	723	662	191	166	87	90
13	25	32	23	56	181	171	716	621	174	161	88	87
14	22	32	21	70	179	179	705	493	164	157	89	84
15	21	33	21	110	179	233	698	445	152	149	82	86
16	20	30	21	150	181	247	712	406	139	145	90	87
17	19	28	24	320	180	272	747	375	135	139	102	88
18	19	30	26	280	177	314	797	309	140	134	100	86
19	19	27	26	246	178	347	856	272	137	132	98	85
20	18	25	26	225	174	320	915	241	118	136	95	85
21	18	24	25	185	171	330	882	221	105	132	92	83
22	18	23	25	175	165	333	811	193	94	128	94	77
23	20	22	27	191	157	328	810	173	95	111	96	81
24	26	22	26	234	157	334	871	147	94	112	94	80
25	20	22	26	293	155	342	902	138	90	108	94	80
26	19	22	30	291	154	369	926	150	93	98	97	82
27	19	21	29	300	152	437	873	160	96	95	84	82
28	19	21	26	306	150	559	809	186	99	97	77	83
29	19	22	31	279	-------	661	714	218	99	95	75	81
30	19	31	30	268	-------	772	644	251	95	91	82	78
31	19	-------	31	279	-------	900	-------	241	-------	99	80	-------
TOTAL	662	748	822	4,534	5,146	9,383	23,911	13,421	4,977	3,792	2,869	2,552
MEAN	21.4	24.9	26.5	146	184	303	797	433	166	122	92.5	85.1
MAX	26	35	38	320	287	900	1,110	747	254	166	111	97
MIN	18	17	21	13	150	148	639	138	90	91	75	77
AC-FT	1,310	1,480	1,630	8,990	10,210	18,610	47,430	26,620	9,870	7,520	5,690	5,060

CAL YR 1973 TOTAL 14,383 MEAN 39.4 MAX 130 MIN 17 AC-FT 28,530

WTR YR 1974 TOTAL 72,817 MEAN 199 MAX 1,110 MIN 13 AC-FT 144,400

13275000 BURNT RIVER AT HUNTINGTON, OREG.

LOCATION.--Lat 44°21'30", long 117°16'20", in NE¼ sec.13, T.14 S., R.44 E., Baker County, on right bank 0.5 mi (0.8 km) northwest of Huntington and at mile 2.9 (4.7 km).

DRAINAGE AREA.--1,093 mi^2 (2,831 km^2).

PERIOD OF RECORD.--September 1928 to September 1932, October 1956 to September 1959, June 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,104.75 ft (641.528 m) above mean sea level. Sept. 13, 1928, to Sept. 30, 1932, nonrecording gage at site 200 ft (61 m) upstream at different datum. Oct. 1, 1956, to Sept. 30, 1959, water-stage recorder and Oct. 1, 1959, to Aug. 20, 1962, crest-stage gage.

AVERAGE DISCHARGE.--19 years, 130 ft^3/s (3.68 m^3/s), 94,180 acre-ft/yr (116 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Apr. 2, gage height, 5.49 ft (1.673 m); minimum, 24 ft^3/s (0.68 m^3/s) Oct. 2.

Period of record: Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) Dec. 22, 1964, gage height, 5.94 ft (1.811 m); maximum gage height, 6.80 ft (2.073 m) Feb. 3, 1963, (ice jam); no flow at times.

REMARKS.--Records excellent. Flow regulated since 1938 by Unity reservoir (see station 13272500). Diversions for irrigation above station.

DISCHARGF, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1973 TO SFPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	46	78	40	391	291	1,330	815	261	95	70	54
2	28	44	83	38	341	297	1,410	822	278	88	76	55
3	31	41	76	38	305	278	1,340	858	276	89	83	60
4	32	43	71	35	300	263	1,230	922	263	89	80	57
5	36	49	69	39	283	253	1,050	915	262	88	78	65
6	37	55	66	38	247	255	941	842	276	91	82	65
7	37	51	79	39	250	246	899	805	283	100	75	70
8	36	53	84	40	276	235	899	830	285	120	79	72
9	42	54	72	34	259	226	899	847	281	147	72	71
10	42	54	69	34	254	227	953	851	288	154	66	77
11	39	59	70	38	250	230	1,020	819	270	164	61	76
12	37	66	68	50	247	288	1,020	777	244	180	66	74
13	38	71	70	62	244	314	984	742	213	182	65	72
14	39	66	64	150	243	286	961	617	190	173	69	70
15	33	69	62	350	241	308	955	523	175	164	74	68
16	29	70	61	662	249	366	952	475	165	156	68	70
17	30	67	88	554	247	417	986	439	149	153	76	72
18	32	64	96	616	249	454	1,070	394	147	144	82	74
19	29	61	85	640	253	487	1,110	346	153	134	83	72
20	29	58	82	490	243	479	1,220	308	145	133	81	70
21	27	56	89	374	241	464	1,210	274	125	138	79	70
22	27	55	94	343	236	468	1,110	241	111	132	80	70
23	34	55	92	329	220	455	1,090	213	109	117	81	66
24	34	55	88	345	218	453	1,110	188	103	110	77	68
25	41	54	83	403	220	462	1,120	162	100	104	80	72
26	40	54	66	405	222	483	1,170	156	97	103	79	73
27	42	53	71	400	219	544	1,120	165	96	98	75	77
28	38	54	80	407	227	656	1,090	181	101	96	66	77
29	41	56	79	392	------	806	960	216	101	96	57	82
30	40	63	72	367	------	1,140	861	248	100	85	61	74
31	40	------	63	383	------	1,150	------	267	------	67	56	------
TOTAL	1,086	1,696	2,370	8,135	7,175	13,281	32,070	16,258	5,647	3,790	2,277	2,093
MEAN	35.0	56.5	76.5	262	256	428	1,069	524	188	122	73.5	69.8
MAX	42	71	96	662	391	1,150	1,410	922	288	182	83	82
MIN	26	41	61	34	218	226	861	156	96	67	56	54
AC-FT	2,150	3,360	4,700	16,140	14,230	26,340	63,610	32,250	11,200	7,520	4,520	4,150

CAL YR 1973 TOTAL 21,807 MEAN 59.7 MAX 504 MIN 12 AC-FT 43,250
WTR YR 1974 TOTAL 95,878 MEAN 263 MAX 1,410 MIN 26 AC-FT 190,200

13275300 POWDER RIVER NEAR SUMPTER, OREG.

LOCATION.--Lat 44°40'20", long 117°59'40", in NE¼NE¼ sec.25, T.10 S., R.38 E., Baker County, Wallowa Whitman National Forest, on left bank 1,200 ft (366 m) downstream from Mason Dam, 1.4 mi (2.3 km) upstream from California Gulch, 10.9 mi (17.4 km) southwest of Baker, and at mile 123.2 (198.2 km).

DRAINAGE AREA.--168 mi² (435 km²), approximately. Prior to Oct. 1, 1970, 170 mi² (440 km²) at cableway, 0.5 mi (0.8 km) downstream.

PERIOD OF RECORD.--April 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,898.47 ft (1,188.254 m) above mean sea level (Bureau of Reclamation bench mark). Prior to July 29, 1965, nonrecording gage at datum 1.03 ft (0.314 m) higher.

AVERAGE DISCHARGE.--9 years, 105 ft³/s (2.97 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr), not adjusted for storage in Phillips Lake.

EXTREMES.--Current year: Maximum discharge, 630 ft³/s (17.8 m³/s) Apr. 21, gage height, 3.90 ft (1.189 m); minimum, 1.2 ft³/s (0.03 m³/s) Dec. 24-29.

Period of record: Maximum discharge observed, 971 ft³/s (27.5 m³/s) Apr. 30, 1965, gage height, 4.43 ft (1.350 m); no flow Nov. 12, 1967.

Maximum discharge, 1,600 ft³/s (45.3 m³/s), approximately, Mar. 20, 1910, based on comparison with records for station downstream, near Baker.

REMARKS.--Records good. Flow completely regulated since Oct. 31, 1967, by Phillips Lake, active capacity, 90,340 acre-ft (112 hm³). Many small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	2.3	3.2	1.5	1.7	1.8	3.3	500	490	373	241	245
2	5.0	2.3	3.2	1.8	1.7	1.8	3.3	500	505	253	265	257
3	5.0	2.2	2.3	1.7	1.6	1.8	3.2	500	505	253	309	285
4	5.0	2.5	2.2	1.8	1.6	1.8	3.0	500	505	253	309	285
5	5.0	3.0	1.8	2.3	1.6	1.8	3.2	444	500	257	297	285
6	5.2	3.2	2.0	2.5	1.6	1.8	3.2	402	560	257	253	317
7	3.6	3.0	2.1	2.0	1.6	1.8	3.2	515	575	257	233	321
8	1.8	3.2	2.2	2.0	1.6	2.0	3.3	515	575	253	221	321
9	1.8	3.3	2.8	1.8	1.6	2.0	3.5	510	575	253	221	313
10	1.8	2.5	2.0	1.8	1.6	2.1	3.5	545	575	233	217	253
11	1.8	2.2	2.2	1.8	1.6	2.1	3.5	540	530	185	217	225
12	1.8	2.5	3.2	2.0	1.6	2.1	3.5	535	570	175	217	205
13	1.8	2.6	3.8	2.1	1.6	2.2	3.5	535	570	138	221	209
14	1.8	2.2	3.8	2.3	1.6	2.2	3.5	535	570	138	249	205
15	1.8	2.3	4.0	3.3	1.6	2.2	5.0	487	570	119	301	205
16	1.8	2.3	3.8	3.0	1.6	2.3	10	575	570	79	381	205
17	1.8	2.3	4.8	2.8	1.7	2.8	18	560	570	81	408	193
18	1.8	2.3	4.8	2.2	1.6	3.0	21	560	570	92	408	138
19	1.8	2.5	5.2	2.3	1.6	2.8	216	560	570	138	373	90
20	1.8	2.6	3.8	2.1	1.6	2.6	365	565	570	112	353	90
21	1.8	2.8	4.0	1.8	1.6	2.5	535	565	570	95	373	90
22	1.8	2.6	4.3	1.7	1.6	2.6	592	560	570	104	357	64
23	1.8	2.6	3.8	1.6	1.6	2.6	535	560	570	112	305	53
24	1.8	2.3	3.8	1.5	1.6	2.6	510	510	555	112	305	53
25	1.8	2.3	1.2	1.7	1.7	2.6	510	466	500	112	309	53
26	1.8	2.5	1.2	1.7	1.7	2.8	510	462	462	112	377	39
27	1.8	2.5	1.2	1.6	1.7	3.0	505	462	412	114	408	34
28	2.8	2.8	1.2	1.7	1.7	3.0	505	462	403	130	385	34
29	2.2	3.0	1.4	1.8	------	3.0	505	466	398	175	305	35
30	2.2	2.5	1.4	1.8	------	3.8	500	466	398	189	277	26
31	2.5	------	1.4	1.7	------	3.3	------	466	------	221	245	------
TOTAL	78.9	77.2	88.1	61.7	45.5	74.8	5,888.7	15,828	15,863	5,375	9,340	5,128
MEAN	2.55	2.57	2.84	1.99	1.63	2.41	196	511	529	173	301	171
MAX	5.2	3.3	5.2	3.3	1.7	3.8	592	575	575	373	408	321
MIN	1.8	2.2	1.2	1.5	1.6	1.8	3.0	402	398	79	217	26
AC-FT	156	153	175	122	90	148	11,680	31,390	31,460	10,660	18,530	10,170

CAL YR 1973 TOTAL 35,430.4 MEAN 97.1 MAX 376 MIN 1.2 AC-FT 70,280
WTR YR 1974 TOTAL 57,848.9 MEAN 158 MAX 592 MIN 1.2 AC-FT 114,700

13286700 POWDER RIVER NEAR RICHLAND, OREG.

LOCATION.--Lat 44°46'40", long 117°17'30", in SE¼ sec.14, T.9 S., R.44 E., Baker County, on left bank 0.4 mi (0.6 km) upstream from Upper Timber Canyon, 6.0 mi (9.7 km) west of Richland, and at mile 20.3 (32.7 km).

DRAINAGE AREA.--1,310 mi² (3,390 km²), approximately.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,277.42 ft (694.158 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 249 ft³/s (7.05 m³/s), 180,400 acre-ft/yr (222 hm³/yr).

EXTREMES.--Current year: Maximum discharge, not determined; maximum gage height, 9.29 ft (2.832 m) Jan. 15 (ice jam); minimum discharge, 16 ft³/s (0.45 m³/s) Aug. 17.
Period of record: Maximum discharge, 3,470 ft³/s (98.3 m³/s) Jan. 31, 1965, gage height, 6.68 ft (2.036 m); maximum gage height, 9.29 ft (2.832 m) Jan. 15, 1974 (ice jam); minimum discharge, 0.80 ft³/s (0.023 m³/s) Aug. 11, 12, 1966.

REMARKS.--Records good. Regulation by several reservoirs, the largest being Phillips Lake since Oct. 31, 1967, active capacity, 90,540 acre-ft (112 hm³), and Thief Valley Reservoir, capacity, 17,400 acre-ft (21.5 hm³). Diversions for irrigation above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	29	171	170	562	348	1,130	1,150	636	632	49	52
2	32	29	148	127	518	425	1,100	1,170	639	548	44	55
3	32	31	110	130	485	427	968	1,130	763	473	42	59
4	33	28	92	125	455	404	869	1,100	856	400	49	57
5	34	30	82	120	440	388	892	1,090	965	287	54	50
6	36	34	76	120	377	421	770	1,130	1,110	201	48	50
7	35	37	150	130	342	389	734	1,160	1,260	229	47	52
8	36	37	164	130	338	367	703	1,150	1,130	257	40	55
9	35	39	110	110	346	325	713	1,160	967	340	42	67
10	48	38	89	110	338	313	743	1,240	923	392	49	64
11	46	39	84	130	330	315	722	1,200	873	509	51	66
12	44	44	80	160	330	341	732	1,040	899	660	55	83
13	45	58	81	230	318	410	679	930	1,040	598	48	80
14	44	64	78	500	310	413	661	796	1,210	474	52	77
15	43	57	74	960	306	423	673	626	1,300	394	58	73
16	46	59	78	2,220	364	473	704	507	1,460	315	30	75
17	44	70	327	1,700	386	584	725	496	1,620	223	17	69
18	35	64	418	1,750	390	688	767	471	1,700	195	45	69
19	34	59	322	2,020	404	725	780	540	1,710	150	59	70
20	37	54	288	1,650	386	699	776	551	1,680	130	74	68
21	40	51	339	1,390	386	634	787	550	1,570	101	73	71
22	40	50	456	1,130	364	603	883	544	1,460	94	79	66
23	39	51	422	864	331	581	963	500	1,310	85	99	68
24	40	50	379	792	313	573	1,050	465	1,250	70	66	70
25	42	51	329	768	307	600	1,150	497	1,220	56	63	73
26	33	50	264	702	306	659	1,300	575	1,160	44	65	75
27	31	51	240	624	302	718	1,290	690	1,060	47	71	65
28	28	53	237	594	318	776	1,240	805	943	51	76	68
29	29	77	254	567	------	780	1,180	831	797	61	67	77
30	29	129	253	534	------	981	1,130	788	707	55	61	80
31	29	------	231	512	------	1,170	------	696	------	54	57	------
TOTAL	1,155	1,513	6,426	21,069	10,352	16,953	26,724	25,578	34,218	8,125	1,730	2,004
MEAN	37.3	50.4	207	680	370	547	891	825	1,141	262	55.8	66.8
MAX	48	129	456	2,220	562	1,170	1,300	1,240	1,710	660	99	83
MIN	28	28	74	110	302	313	661	465	636	44	17	50
AC-FT	2,290	3,000	12,750	41,790	20,530	33,630	53,010	50,730	67,870	16,120	3,430	3,970

CAL YR 1973 TOTAL 35,671.9 MEAN 97.7 MAX 760 MIN 8.5 AC-FT 70,760
WTR YR 1974 TOTAL 155,847.0 MEAN 427 MAX 2,220 MIN 17 AC-FT 309,100

NOTE.--No gage height record Jan. 16, 17.

13288200 EAGLE CREEK ABOVE SKULL CREEK, NEAR NEW BRIDGE, OREG.

LOCATION.--Lat 44°52'50", long 117°15'10", in SE¼ sec.7, T.8 S., R.45 E., Baker County, Wallowa-Whitman National Forest, on left bank 0.5 mi (0.8 km) upstream from Skull Creek, 6.5 mi (10.5 km) northwest of New Bridge, and at mile 10.5 (16.9 km).

DRAINAGE AREA.--156 mi^2 (404 km^2).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft (853 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 334 ft^3/s (9.46 m^3/s), 242,000 acre-ft/yr (298 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,100 ft^3/s (116 m^3/s) June 16, gage height, 6.30 ft (1.311 m); minimum, 71 ft^3/s (2.01 m^3/s) Oct. 17-20.
Period of record: Maximum discharge, 4,100 ft^3/s (116 m^3/s) June 16, 1974, gage height, 4.30 ft (1.311 m); maximum gage height, 6.88 ft (2.097 m) Jan. 25, 1962 (ice jam); minimum daily discharge, 44 ft^3/s (1.25 m^3/s) Dec. 17, 1964.

REMARKS.--Records good. No regulation. Some diversions above station for irrigation and one small interbasin diversion for irrigation supply. All diversions are small compared to flow at station during irrigation season.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	144	225	117	169	147	548	940	1.450	1.580	464	148
2	79	105	214	110	163	147	476	947	1.640	1.370	444	147
3	77	100	200	115	156	142	418	949	1.890	1.230	417	144
4	77	100	193	110	160	144	391	1,040	2.030	1.230	389	141
5	79	105	182	105	150	150	367	1,220	2.220	1.210	370	144
6	79	110	179	100	139	147	371	1.390	1.790	1.060	379	153
7	84	105	200	100	160	142	371	1.560	1.520	1.060	348	152
8	77	112	186	105	144	142	386	1.760	1.300	1.300	314	149
9	77	133	169	92	142	136	415	1.700	1.340	1.650	290	148
10	75	232	172	100	139	142	417	1.410	1.470	1.290	277	146
11	75	714	176	140	142	144	440	1.170	1.800	976	263	146
12	75	976	169	170	139	169	432	1.010	2.250	842	255	144
13	75	560	163	210	139	172	404	899	2.740	868	244	143
14	75	418	156	279	142	166	420	838	3.060	949	237	147
15	75	385	160	350	139	176	474	766	3.240	1.020	227	145
16	73	380	153	450	160	221	521	708	3.400	1,000	217	142
17	73	327	225	350	150	319	577	659	3.200	922	212	140
18	71	295	210	299	150	350	635	613	2.880	904	208	139
19	71	259	186	279	150	323	678	572	2.700	940	207	138
20	75	244	182	244	144	299	680	557	2.620	922	201	136
21	77	240	189	221	142	283	671	563	2.300	842	194	134
22	77	228	189	210	144	279	709	592	2.260	794	189	132
23	93	217	186	203	142	279	764	681	2.330	706	183	131
24	95	217	176	196	136	291	868	796	2.310	641	174	129
25	95	214	169	193	142	323	839	981	2.140	596	169	126
26	86	207	163	186	139	365	785	1.380	1.840	566	165	123
27	86	200	186	182	136	429	746	1.710	1.590	530	162	123
28	88	193	160	176	139	458	672	1.660	1.560	518	159	122
29	93	186	163	172	------	435	659	1,490	1.540	512	157	120
30	90	217	156	169	------	634	769	1.370	1.610	500	154	119
31	117	------	150	176	------	682	------	1.370	------	488	151	------
TOTAL	2.518	7.923	5,587	5.909	4.097	8.156	16.903	33.301	64.020	28.926	7.820	4.151
MEAN	81.2	264	180	191	146	263	563	1.074	2.134	933	252	138
MAX	117	976	225	450	169	634	868	1.760	3.400	1.650	464	153
MIN	71	100	150	92	136	136	367	557	1.300	488	151	119
AC-FT	4,990	15.720	11,080	11.720	8.130	16.180	33.530	66.050	127.000	57.370	15.510	8.230

CAL YR 1973 TOTAL 91.933 MEAN 252 MAX 1.660 MIN 66 AC-FT 182.300
WTR YR 1974 TOTAL 189.311 MEAN 519 MAX 3.400 MIN 71 AC-FT 375.500

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5- 8	2100	3.38	1,970	6-16	2200	4.30	4,100
6- 5	0100	3.72	2,550				

13289700 BROWNLEE RESERVOIR AT BROWNLEE DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 44°50'08", long 116°53'58", in SE¼SE¼ sec.2, T.17 N., R.5 W., Washington County, at Brownlee Dam on Snake River near Snake River near Idaho end of dam, 1.1 mi (1.8 km) upstream from Wildhorse River, 3.5 mi (5.6 km) downstream from Brownlee Creek, 10.5 mi (16.9 km) east of Halfway, Oreg., and at mile 285.0 (458.6 km).

DRAINAGE AREA.--72,590 mi² (188,000 km²), approximately.

PERIOD OF RECORD.--May 1958 to current year. Published as "at Idaho-Oregon State line" 1958-59.

GAGE.--Remote registering water-stage recorder. Datum of gage is mean sea level, Idaho Power Co. datum. Prior to Feb. 2, 1959, nonrecording gage or levels to water surface at present site and datum.

EXTREMES.--Current year: Maximum contents, 1,437,000 acre-ft (1,770 hm³) Nov. 17 (elevation, 2,077.75 ft or 633.298 m); minimum, 650,700 acre-ft (802 hm³) May 15 (elevation, 2,004.17 ft or 610.871 m).

Period of record: Maximum contents, 1,453,500 acre-ft (1,792 hm³) Aug. 6, 1962 (elevation, 2,078.91 ft or 633.652 m); minimum since full capacity was attained June 23, 1959, 441,200 acre-ft (544 hm³) Apr. 25, 1971 (elevation, 1,975.20 ft or 602.041 m).

REMARKS.--Reservoir is formed by earth-fill dam. Storage began May 5, 1958. Dam was completed in fall of 1958. Normal pool elevation, 2,077 ft (633.1 m). Water is used for power generation.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Idaho Power Co.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,000.0	618,700	2,060.0	1,198,000
2,020.0	786,400	2,080.0	1,469,000
2,040.0	977,100		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,428	1,431	1,395	1,388	1,182	970.1	1,068	717.4	860.4	1,433	1,424	1,416
2	1,428	1,427	1,396	1,381	1,158	958.4	1,155	689.5	880.6	1,432	1,421	1,418
3	1,424	1,424	1,395	1,371	1,136	954.0	1,103	664.5	903.6	1,434	1,425	1,415
4	1,423	1,428	1,396	1,360	1,128	950.8	1,107	660.4	937.1	1,432	1,428	1,412
5	1,421	1,430	1,392	1,345	1,132	938.9	1,101	654.2	967.8	1,436	1,434	1,425
6	1,418	1,431	1,389	1,331	1,130	931.4	1,091	652.7	1,002	1,435	1,432	1,416
7	1,418	1,431	1,384	1,317	1,130	921.3	1,067	655.4	1,051	1,435	1,431	1,415
8	1,422	1,427	1,384	1,309	1,130	924.2	1,045	662.9	1,095	1,437	1,434	1,420
9	1,421	1,424	1,381	1,296	1,131	921.6	1,026	669.0	1,142	1,436	1,433	1,424
10	1,423	1,420	1,377	1,280	1,127	921.1	1,004	671.3	1,181	1,434	1,429	1,426
11	1,425	1,418	1,373	1,261	1,126	911.5	986.4	674.1	1,221	1,434	1,434	1,416
12	1,427	1,421	1,372	1,243	1,129	916.0	959.5	665.7	1,253	1,436	1,433	1,425
13	1,428	1,424	1,372	1,224	1,124	916.1	931.7	655.4	1,283	1,432	1,430	1,422
14	1,427	1,431	1,371	1,222	1,123	922.6	907.8	651.6	1,317	1,435	1,431	1,417
15	1,425	1,433	1,371	1,223	1,122	927.6	878.2	650.7	1,344	1,435	1,434	1,414
16	1,424	1,436	1,363	1,244	1,108	926.5	854.9	654.3	1,372	1,433	1,431	1,425
17	1,427	1,437	1,365	1,310	1,098	918.5	832.7	652.6	1,402	1,433	1,429	1,421
18	1,424	1,435	1,367	1,370	1,093	914.1	812.7	657.9	1,428	1,431	1,428	1,417
19	1,424	1,430	1,378	1,410	1,089	933.1	782.1	663.9	1,432	1,428	1,426	1,413
20	1,423	1,425	1,380	1,420	1,089	951.9	761.7	658.1	1,430	1,427	1,423	1,413
21	1,425	1,421	1,383	1,412	1,080	971.3	737.2	665.9	1,428	1,430	1,420	1,412
22	1,428	1,417	1,381	1,403	1,069	985.1	728.4	671.9	1,433	1,434	1,418	1,409
23	1,427	1,419	1,384	1,402	1,058	993.7	717.8	676.7	1,432	1,435	1,416	1,409
24	1,428	1,417	1,384	1,398	1,044	1,004	729.9	685.2	1,433	1,434	1,413	1,407
25	1,427	1,414	1,386	1,376	1,025	1,007	749.5	697.9	1,433	1,433	1,416	1,405
26	1,423	1,411	1,387	1,353	1,008	1,010	773.1	708.8	1,436	1,430	1,420	1,402
27	1,423	1,408	1,382	1,331	994.6	1,014	786.1	719.9	1,434	1,429	1,423	1,398
28	1,427	1,404	1,378	1,311	984.5	1,030	761.9	732.1	1,432	1,428	1,425	1,390
29	1,434	1,400	1,382	1,285	------	1,021	771.9	763.3	1,430	1,430	1,422	1,392
30	1,435	1,396	1,390	1,248	------	1,028	746.5	792.0	1,426	1,426	1,417	1,408
31	1,436	------	1,392	1,215	------	1,038	------	828.8	------	1,425	1,418	------
MAX	1,436	1,437	1,396	1,420	1,182	1,038	1,155	828.8	1,436	1,437	1,434	1,426
MIN	1,418	1,396	1,363	1,215	984.5	911.5	717.8	650.7	860.4	1,425	1,413	1,390
(†)	2,077.68	2,074.80	2,074.52	2,061.37	2,040.76	2,046.10	2,015.63	2,024.53	2,076.95	2,076.91	2,076.36	2,075.68
(‡)	+5	-40	-4	-4	-230.5	+53.5	-291.5	+82.3	+597.2	-1	-7	-10

WTR YR 1974 MAX 1,437 MIN 650.7

† Elevation, in feet, at end of month.

‡ Change in contents, in thousands of acre-feet.

13290190 PINE CREEK NEAR OXBOW, OREG.

LOCATION.--Lat 44°57'13", long 116°52'21", in NE¼SW¼ sec.17, T.7 S., R.48 E., Baker County, 1.8 mi (2.9 km) south of Oxbow, and at mile 1.9 (3.1 km).

DRAINAGE AREA.--230 mi^2 (596 km^2), approximately.

PERIOD OF RECORD.--November 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,850.48 ft (564.026 m) above mean sea level (levels by Idaho Power Co.). Prior to Aug. 24, 1967, nonrecording gage at site 1.7 mi (2.7 km) downsteam at different datum.

AVERAGE DISCHARGE.--7 years, 426 ft^3/s (12.1 m^3/s), 308,600 acre-ft/yr (381 hm^3/yr); 5-year base period (1968-72), 407 ft^3/s (11.5 m^3/s).

EXTREMES.--Current year: Maximum discharge, 6,810 ft^3/s (193 m^3/s) Jan. 16 (gage height, 9.13 ft or 2.783 m); minimum, 45 ft^3/s (1.27 m^3/s) Oct. 19, 20 (gage height, 3.20 ft or 0.975 m); minimum gage height, 2.66 ft (0.811 m) Sept. 27.
Period of record: Maximum discharge, 7,110 ft^3/s (201 m^3/s) Feb. 21, 1968 (gage height, 9.82 ft or 2.993 m); minimum, 23 ft^3/s (0.65 m^3/s) Aug. 23, 24, 1973 (gage height, 2.94 ft or 0.896 m).

REMARKS.--Records good except those for July and August, which are fair. Diversions above station for irrigation of about 19,000 acres (7,690 hm^2), 1966 determination.

Rating tables (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 2-19)

Oct. 1 to Jan. 14				Jan. 15 to Sept. 30.			
3.2	45	5.0	563	3.0	96	5.0	842
3.5	82	6.0	1,330	3.2	130	6.0	1,700
4.0	180	7.0	2,540	3.5	196	7.0	2,960
4.5	331			4.0	351	8.0	4,510
				4.5	559	9.0	6,510

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	149	704	275	702	427	1,680	1,120	1,350	1,020	113	61
2	49	100	858	256	585	495	1,440	1,210	1,490	936	112	63
3	49	92	660	247	508	456	1,140	1,120	1,750	851	111	64
4	51	88	558	230	486	431	980	1,120	1,910	831	111	62
5	51	96	483	224	456	477	879	1,260	2,470	824	110	62
6	52	142	444	218	404	590	817	1,520	1,970	743	109	58
7	62	157	750	253	381	504	773	1,560	1,660	761	108	55
8	59	182	785	232	366	477	755	1,730	1,410	914	107	56
9	56	331	574	221	348	439	767	1,860	1,440	1,180	106	54
10	56	536	493	238	330	431	810	1,510	1,490	958	104	54
11	57	1,030	444	269	323	415	831	1,300	1,670	797	102	62
12	52	1,560	412	324	316	517	824	1,160	2,000	720	99	67
13	51	984	417	327	309	657	755	1,000	2,330	710	96	63
14	51	691	404	313	306	652	731	893	2,610	720	93	64
15	50	730	378	2,950	309	625	785	817	2,770	730	89	64
16	49	1,100	404	5,430	469	697	837	754	2,860	640	86	64
17	48	936	1,180	3,270	499	1,000	914	697	2,930	584	82	63
18	47	717	1,110	2,560	456	1,290	1,040	641	2,840	490	78	64
19	45	580	743	2,410	536	1,160	1,140	595	2,650	415	83	59
20	46	503	618	1,610	504	990	1,110	580	2,590	326	86	63
21	49	463	764	1,160	456	883	1,020	560	2,120	204	83	62
22	51	421	888	980	431	810	1,060	575	1,920	160	85	59
23	65	395	936	851	385	742	1,110	631	1,970	140	86	55
24	85	387	757	773	377	701	1,430	749	1,980	130	85	53
25	95	374	648	755	355	718	1,460	879	1,860	124	83	54
26	78	358	536	691	334	772	1,340	1,170	1,480	120	81	53
27	72	347	524	615	334	890	1,090	1,690	1,190	118	74	52
28	71	343	483	570	362	1,260	921	1,690	1,090	117	69	54
29	75	404	449	536	------	1,200	824	1,590	1,040	116	65	55
30	71	546	408	486	------	2,030	886	1,430	1,030	115	62	57
31	85	------	374	560	------	2,090	------	1,340	------	114	61	------
TOTAL	1,829	14,742	19,186	29,834	11,627	24,846	30,149	34,751	57,870	16,608	2,819	1,776
MEAN	59.0	491	619	962	415	801	1,005	1,121	1,929	536	90.9	59.2
MAX	95	1,560	1,180	5,430	702	2,090	1,680	1,860	2,930	1,180	113	67
MIN	45	88	374	218	306	415	731	560	1,030	114	61	52
AC-FT	3,630	2[illegible],240	38,060	59,180	23,060	49,280	59,800	68,930	114,800	32,940	5,590	3,520

CAL YR 1973 TOTAL 122,384 MEAN 335 MAX 1,790 MIN 23 AC-FT 242,700
WTR YR 1974 TOTAL 246,037 MEAN 674 MAX 5,430 MIN 45 AC-FT 488,000

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-12	1500	6.74	2,110	5- 9	0400	6.35	2,040
12-17	1700	6.91	2,330	6- 5	0700	6.87	2,740
1-16	1000	9.13	6,810	6-17	0700	7.13	3,100
3-30	2300	6.77	2,520				

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 45°15'05", long 116°41'50", in SE¼SE¼ sec.33, T.3 S., R.49 E. (Willamette meridian, unsurveyed), Wallowa County, Wallowa National Forest, on left bank 0.2 mi (0.3 km) upstream from Hells Canyon Creek, 0.4 mi (0.6 km) downstream from Deep Creek, 0.6 mi (1.0 km) downstream from Hells Canyon Dam, 15.5 mi (24.9 km) northeast of Homestead, Oreg., and at mile 247.0 (397.4 km).

DRAINAGE AREA.--73,300 mi² (190,000 km²), approximately.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,400 ft (426.720 m) above mean sea level (levels by Idaho Power Co.).

AVERAGE DISCHARGE.--9 years, 22,040 ft³/s (624 m³/s), 15,970,000 acre-ft/yr (19,700 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 63,300 ft³/s (1,790 m³/s) Apr. 21 (gage height, 79.79 ft or 24.320 m); minimum, 9,280 ft³/s (263 m³/s) Aug. 2 (gage height, 64.79 ft or 19.748 m); minimum daily discharge, 9,870 ft³/s (280 m³/s) Aug. 4.

Period of record: Maximum discharge, 75,800 ft³/s (2,150 m³/s) Apr. 15, 1971 (gage height, 81.55 ft or 24.856 m); minimum, 1,580 ft³/s (44.7 m³/s) Mar. 19, 1967 (gage height, 59.9 ft or 18.26 m); minimum daily, 4,950 ft³/s (140 m³/s) May 26, 1968.

REMARKS.--Records good. Flow regulated by many reservoirs above station with total usable capacity of more than 10,000,000 acre-feet (12,300 hm³), the most effective of which is Brownlee Reservoir 38 mi (61 km) upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant. Diversions above station for irrigation of about 3,820,000 acres (1,550,000 hm²) of which 742,000 acres (300,000 hm²) are by withdrawals from ground water (1966 determination). Records of chemical analyses for the current year are published in Part 2 of the Idaho district report.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 12-14)

Oct. 1 to Jan. 14, June 19 to Sept. 30				Jan. 15 to June 18			
65.0	9,720	70.0	23,600	69.0	18,300	77.0	50,400
66.0	11,900	73.0	35,000	71.0	25,100	80.0	64,200
68.0	17,000	76.0	48,100				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,800	15,100	20,200	24,600	38,300	36,000	50,100	61,800	25,300	36,900	11,100	10,300
2	15,400	17,400	21,900	26,000	38,200	35,900	55,100	61,700	25,400	35,900	10,100	13,000
3	16,100	13,400	21,300	23,100	25,100	35,500	58,900	51,000	25,400	35,900	9,890	14,800
4	15,100	12,500	22,700	22,000	23,500	38,100	60,300	44,500	25,500	32,600	9,870	13,600
5	15,800	14,600	22,200	24,700	23,500	36,300	61,000	44,100	25,600	31,600	12,400	10,300
6	13,400	16,100	21,400	21,500	23,300	35,700	62,100	47,400	23,700	27,100	11,200	12,200
7	13,400	16,800	20,500	24,200	23,300	32,000	62,300	48,000	20,300	27,500	10,900	10,300
8	14,000	19,000	24,000	24,200	23,300	35,900	62,400	50,000	20,000	26,700	10,500	10,100
9	13,600	17,000	23,200	24,000	23,000	39,200	62,100	52,900	18,600	30,400	10,300	10,200
10	13,400	19,100	22,200	24,100	23,000	39,300	61,000	54,200	20,600	27,900	10,200	13,700
11	13,800	18,900	21,900	24,500	23,100	38,000	61,400	54,500	20,600	26,100	10,200	13,700
12	15,800	20,400	21,400	19,200	23,100	37,200	62,200	51,900	23,700	24,700	11,200	13,900
13	15,000	20,400	22,300	15,400	23,100	38,600	62,100	49,800	27,200	23,300	11,000	15,400
14	16,400	21,900	21,100	17,400	24,300	40,800	61,000	46,900	30,000	21,600	11,100	15,000
15	14,000	23,000	20,000	19,400	20,000	43,300	62,300	45,100	31,100	21,300	11,000	11,100
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

13292000 IMNAHA RIVER AT IMNAHA, OREG.

LOCATION.--Lat 45°33'45", long 116°50'00", in SW¼ sec.16, T.1 N., R.48 E., Wallowa County, on left bank at Imnaha, 0.3 mi (0.5 km) downstream from Big Sheep Creek, and at mile 19.3 (31.1 km).

DRAINAGE AREA.--622 mi² (1,611 km²).

PERIOD OF RECORD.--June 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,941.14 ft (591.659 m) above mean sea level. Prior to Aug. 6, 1934, nonrecording gage at site 0.25 mi (0.40 km) upstream at different datum. Aug. 6-31, 1934, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years, 514 ft³/s (14.6 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 17, gage height, 7.86 ft (2.396 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); minimum, 113 ft³/s (3.20 m³/s) Oct. 20.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 17, 1974, gage height, 7.86 ft (2.396 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); minimum observed, 16 ft³/s (0.45 m³/s) Nov. 22, 1931, result of freezeup; minimum daily, 25 ft³/s (0.71 m³/s) Nov. 22, 23, 1931.

REMARKS.--Records excellent. No regulation. Diversions for irrigation above station. Water is diverted from Big Sheep Creek and tributaries above station for irrigation in Wallowa River basin.

REVISIONS (WATER YEARS).--WSP 833: 1938. WSP 1397: 1929, 1932(M), 1949. WSP 1737: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	215	526	220	525	378	1,610	1,990	1,980	2,070	626	219
2	116	169	596	180	485	425	1,310	2,080	2,110	1,900	596	219
3	117	137	553	180	460	425	1,090	2,020	2,400	1,710	578	213
4	116	149	509	170	450	430	939	2,070	2,540	1,680	545	207
5	117	145	472	160	430	420	841	2,260	2,650	1,700	520	207
6	117	185	445	150	370	415	806	2,550	2,400	1,510	535	204
7	131	183	457	190	402	378	743	2,640	2,100	1,490	515	198
8	132	174	438	150	390	382	722	2,840	1,820	1,560	460	193
9	126	239	387	150	366	346	806	2,960	1,770	2,090	425	190
10	124	441	409	180	354	354	841	2,470	1,810	1,730	398	190
11	124	1,380	406	180	370	354	792	2,070	1,980	1,510	386	193
12	125	2,610	389	250	378	430	813	1,860	2,320	1,300	374	190
13	122	1,750	381	310	378	525	778	1,650	2,690	1,260	358	188
14	124	1,150	357	400	374	540	813	1,510	3,080	1,290	354	183
15	126	919	343	1,000	366	540	946	1,390	3,380	1,390	338	178
16	121	1,110	337	2,500	382	648	1,100	1,250	3,510	1,370	323	170
17	118	1,080	372	5,600	374	1,210	1,200	1,160	3,660	1,270	313	188
18	116	881	377	2,550	362	1,330	1,410	1,100	3,760	1,250	313	188
19	116	725	365	1,950	366	1,180	1,500	1,000	3,540	1,200	323	185
20	116	626	375	1,560	362	992	1,390	992	3,500	1,370	313	185
21	124	570	383	1,250	330	862	1,200	984	3,050	1,250	288	183
22	127	531	376	1,050	330	705	1,420	1,040	2,840	1,150	278	180
23	130	489	373	910	292	715	1,760	1,240	2,840	1,060	271	178
24	160	444	359	820	302	674	2,100	1,530	2,930	960	264	175
25	156	435	356	757	316	715	2,200	1,750	2,790	800	253	175
26	142	416	319	700	308	757	2,170	2,160	2,540	841	239	173
27	134	392	346	644	302	918	1,840	2,500	2,220	705	236	173
28	134	380	362	608	306	1,410	1,610	2,540	2,100	757	229	158
29	142	377	329	572	------	1,340	1,440	2,340	2,030	743	232	158
30	134	408	319	565	------	1,770	1,500	2,130	2,040	694	225	158
31	145	------	301	535	------	1,990	------	1,900	------	660	222	------
TOTAL	3,968	18,737	12,295	26,517	10,411	23,590	37,910	58,146	79,360	40,520	11,330	5,575
MEAN	128	625	397	855	372	761	1,264	1,876	2,645	1,307	365	186
MAX	160	2,610	596	5,600	525	1,990	2,200	2,960	3,760	2,090	626	219
MIN	116	137	301	150	292	346	722	984	1,770	660	222	158
AC-FT	7,870	37,160	24,390	52,600	20,650	46,790	75,190	115,300	157,400	80,370	22,470	11,060

CAL YR 1973 TOTAL 143,727 MEAN 394 MAX 2,610 MIN 83 AC-FT 285,100
WTR YR 1974 TOTAL 327,271 MEAN 897 MAX 5,600 MIN 116 AC-FT 649,100

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-17	[illegible]	7.86	10,100	5-8	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

13318800 GRANDE RONDE RIVER AT HILGARD, OREG.

LOCATION.--Lat 45°20'21", long 118°14'35", in NE¼NE¼ sec.1, T.3 S., R.36 E., Union County, on left bank 8.8 mi (14.2 km) northwest of La Grande, 1.6 mi (2.6 km) usptream from Fivepoint Creek, and at mile 171.3 (275.6 km).

DRAINAGE AREA.--555 mi^2 (1,437 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,993.62 ft (912.455 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 295 ft^3/s (8.35 m^3/s), 213,700 acre-ft/yr (263 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,440 ft^3/s (94.4 m^3/s) Jan. 15, gage height, 6.35 ft (1.935 m); maximum gage height, 12.25 ft (3.734 m) Jan. 15 (ice jam); minimum discharge, 18 ft^3/s (0.51 m^3/s) Oct. 2-5, 10, 11.

Period of record: Maximum discharge, 4,740 ft^3/s (134 m^3/s) Mar. 13, 1972, gage height, 7.18 ft (2.188 m); maximum gage height, 12.25 ft (3.734 m) Jan. 15, 1974 (ice jam); minimum discharge, 9.6 ft^3/s (0.27 m^3/s) Aug. 17, 18, 23, 1973.

Flood of Jan. 30, 1965, reached a stage of about 9 ft (2.74 m), from floodmark, discharge not determined.

REMARKS.--Records excellent except those for January, which are fair. Slight regulation by city of La Grande reservoir on Beaver Creek, capacity, about 900 acre-ft (1.11 hm^3). Diversions for irrigation above station. Since 1909, city of La Grande has diverted about 3 ft^3/s (0.08 m^3/s) from Beaver Creek above station for domestic water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	96	589	220	465	286	1,440	1,460	894	157	53	21
2	18	68	568	140	387	300	1,270	1,470	922	149	53	21
3	18	48	467	120	356	242	1,090	1,390	997	139	52	21
4	18	38	388	125	373	244	976	1,340	1,050	128	47	21
5	18	47	330	130	325	268	929	1,370	1,320	123	43	21
6	19	62	316	140	221	286	973	1,530	1,240	139	41	21
7	20	63	771	135	259	222	923	1,610	1,040	140	38	21
8	21	64	957	120	277	222	917	1,750	870	123	37	21
9	20	127	652	115	242	206	1,010	1,740	784	139	36	21
10	19	277	519	130	226	226	1,030	1,600	729	172	35	22
11	20	325	654	160	230	230	1,030	1,220	726	196	34	23
12	22	860	404	210	230	277	1,140	1,080	764	149	32	24
13	22	606	352	270	234	300	1,030	926	770	124	31	24
14	23	415	308	700	230	295	959	840	756	107	31	24
15	22	327	310	2,000	230	330	1,010	790	732	96	31	24
16	21	310	350	3,080	277	590	1,110	720	681	88	30	23
17	21	307	567	2,370	290	1,250	1,150	676	630	82	28	22
18	20	283	763	1,580	277	1,350	1,320	630	570	79	27	22
19	20	242	610	1,550	325	1,210	1,300	610	517	83	27	22
20	22	217	536	1,130	290	900	1,220	577	460	76	29	22
21	27	212	550	846	277	886	1,100	551	403	68	30	22
22	32	196	545	719	250	862	1,120	539	377	63	27	22
23	33	183	601	666	234	776	1,290	559	351	60	26	22
24	34	186	491	690	214	755	1,590	609	307	58	25	21
25	34	183	474	700	234	855	1,600	700	276	56	24	21
26	31	179	362	611	276	910	1,700	906	268	55	23	21
27	29	177	401	559	214	1,110	1,590	1,130	225	55	23	20
28	29	202	386	537	222	1,330	1,490	1,150	200	54	22	21
29	38	341	320	473	-------	1,310	1,330	1,070	193	53	22	21
30	38	426	290	426	-------	1,670	1,310	985	160	61	21	22
31	39	-------	277	463	-------	1,670	-------	913	-------	59	21	-------
TOTAL	766	7,067	15,108	21,121	7,631	21,421	36,207	32,341	19,222	3,152	999	654
MEAN	24.7	236	487	681	273	691	1,210	1,043	641	102	32.2	21.8
MAX	39	860	957	3,080	465	1,670	1,700	1,750	1,320	196	53	24
MIN	18	38	277	115	214	206	917	539	160	53	21	20
AC-FT	1,520	14,020	29,970	41,890	15,140	42,490	71,820	64,150	38,130	6,250	1,980	1,300

CAL YR 1973 TOTAL 59,787.6 MEAN 164 MAX 957 MIN 9.6 AC-FT 118,600
WTR YR 1974 TOTAL 165,689.0 MEAN 454 MAX 3,080 MIN 18 AC-FT 328,600

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-15	2300	6.35	3,440	4-26	[illegible]	[illegible]	[illegible]
3-30	[illegible]	[illegible]	[illegible]	5- 8	[illegible]	[illegible]	[illegible]

13319000 GRANDE RONDE RIVER AT LA GRANDE, OREG.

LOCATION.--Lat 45°20'47", long 118°07'26", in NW¼SE¼ sec.36, T.2 S., R.37 E., Union County, on right bank 1.8 mi (2.9 km) northwest of La Grande, 5.7 mi (9.2 km) downstream from Fivepoint Creek, and at mile 164.0 (263.9 km).

DRAINAGE AREA.--678 mi² (1,756 km²).

PERIOD OF RECORD.--October 1903 to September 1915, February 1918 to September 1923, October 1925 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "at Hilgard" 1903-15.

GAGE.--Water-stage recorder. Datum of gage is 2,826.25 ft (861.441 m) above mean sea level. Nov. 6, 1903, to Sept. 30, 1915, nonrecording gage at site 5.5 mi (8.8 km) upstream at various datums. Feb. 16, 1918, to June 28, 1923, and Oct. 1, 1925, to Nov. 23, 1931, nonrecording gage at site 0.7 mi (1.1 km) downstream at various datums. Nov. 24, 1931, to Oct. 8, 1965, water-stage recorder at site 0.3 mi (0.5 km) upstream at datum 4.61 ft (1.405 m) higher.

AVERAGE DISCHARGE.--66 years, 380 ft³/s (10.8 m³/s), 275,300 acre-ft/yr (339 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,190 ft³/s (119 m³/s) Jan. 16, gage height, 7.46 ft (2.274 m); maximum gage height, 7.55 ft (2.301 m), backwater from ice; minimum daily discharge, 21 ft³/s (0.59 m³/s) Sept. 27.
Period of record: Maximum discharge, 14,100 ft³/s (399 m³/s) Jan. 30, 1965, gage height, 11.44 ft (3.487 m), site and datum then in use, from rating curve extended above 7,200 ft³/s (204 m³/s); minimum, 3.9 ft³/s (0.11 m³/s) Aug. 26, 1940.

REMARKS.--Records good except those for August and September, which are fair. Since 1915, slight regulation by city of La Grande reservoir on Beaver Creek, capacity, about 900 acre-ft (1.11 hm³). Diversions for irrigation above station. Since 1909, city of La Grande has diverted about 3 ft³/s (0.08 m³/s) from Beaver Creek above station for domestic water supply.

REVISIONS (WATER YEARS).--WSP 768: 1933. WSP 1397: 1904-11, 1913, 1915, 1919-20, 1922-23, 1926, 1929-31, 1936-37, 1939, 1942. WSP 1737: Drainage area.

CORRECTIONS.--The maximum discharge for water year 1973 is 675 ft³/s (19.1 m³/s) May 16, 1973, gage height, 3.35 ft (1.021 m); maximum gage height, 5.18 ft (1.579 m) Jan. 16, 1973, backwater from ice.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	104	62	200	655	376	1,940	2,060	1,060	163	56	22
2	24	86	13	140	560	438	1,700	2,040	1,110	156	55	22
3	24	64	33	145	520	358	1,450	1,910	1,230	145	54	22
4	24	51	19	150	533	372	1,280	1,830	1,310	134	52	22
5	24	61	30	150	475	372	1,210	1,900	1,690	135	48	22
6	25	76	96	160	344	414	1,280	2,130	1,590	149	44	22
7	26	78	95	150	380	338	1,220	2,270	1,310	149	42	22
8	27	79	1,10	130	394	334	1,220	2,450	1,060	137	40	23
9	27	152	67	120	352	310	1,390	2,380	919	152	39	24
10	25	352	66	130	334	338	1,400	1,970	851	189	38	24
11	26	430	73	140	338	341	1,380	1,600	850	216	37	25
12	28	1,130	06	200	348	442	1,600	1,400	925	174	35	25
13	29	787	30	250	341	484	1,420	1,180	952	144	33	25
14	30	823	66	350	348	474	1,330	1,040	943	128	33	25
15	29	603	55	700	341	515	1,440	972	923	113	32	25
16	28	381	50	3,880	406	811	1,630	859	842	108	30	24
17	27	377	750	3,060	444	1,440	1,680	775	773	102	29	23
18	27	365	1070	2,100	427	1,900	1,900	715	701	98	28	22
19	28	290	862	2,000	476	1,600	1,970	673	620	102	28	22
20	28	252	720	1,530	430	1,310	1,710	624	538	95	29	22
21	33	238	695	1,160	414	1,150	1,530	594	454	84	31	22
22	41	221	605	952	372	1,110	1,610	500	418	78	29	22
23	42	213	771	886	352	976	1,870	637	383	74	28	22
24	[illegible]	213	428	934	324	920	2,240	710	327	70	27	22
25	[illegible]	213	507	944	344	1,100	2,540	852	297	66	26	22
26	[illegible]	188	428	850	330	1,230	2,500	1,160	267	63	25	22
27	[illegible]	188	403	775	316	1,630	2,260	1,400	241	61	25	21
28	[illegible]	212	467	735	324	1,900	2,070	1,470	210	58	24	22
29	[illegible]	202	390	665	-------	1,810	1,850	1,330	202	56	24	22
30	[illegible]	[illegible]	345	600	-------	2,260	1,830	1,190	182	61	23	23
31	[illegible]	-------	317	641	-------	2,330	-------	1,100	-------	58	22	-------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	1,130	[illegible]	3,880	[illegible]	2,330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25
MIN	[illegible]	51	[illegible]	120	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
AC-FT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

13320000 CATHERINE CREEK NEAR UNION, OREG.

LOCATION.--Lat 45°09'20", long 117°46'26", in NW¼SE¼ sec.2, T.5 S., R.40 E., Union County, on right bank 3.0 mi (4.8 km) downstream from Little Catherine Creek, 5.5 mi (8.8 km) southeast of Union, and at mile 25.4 (40.9 km).

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--May 1906 to May 1907 (gage heights only), August 1911 to December 1912, March to September 1915, February 1918 to September 1919, October 1925 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 3,081.76 ft (939.320 m) above mean sea level (Oregon State Highway Department bench mark). Prior to Nov. 28, 1938, nonrecording gage at several sites within 1.8 mi (2.9 km) of present site at various datums. Nov. 28, 1938, to May 16, 1939, water-stage recorder at site 400 ft (122 m) downstream at datum 4.29 ft (1.308 m) lower.

AVERAGE DISCHARGE.--51 years (1911-12, 1918-19, 1925-74), 119 ft³/s (3.37 m³/s), 86,220 acre-ft/yr (106 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) June 16, gage height, 3.80 ft (1.158 m); minimum, 17 ft³/s (0.48 m³/s) Oct. 19, 20.

Period of record: Maximum discharge, 1,740 ft³/s (49.3 m³/s) May 27, 1948, gage height, 4.57 ft (1.393 m); minimum, 6.5 ft³/s (0.18 m³/s) Feb. 4, 1955, result of freezeup; minimum daily, 8 ft³/s (0.23 m³/s) Nov. 7, 1925.

REMARKS.--Records good. No regulation. Several small diversions for irrigation above station. Since 1937, diversion to Big Creek in Powder River basin provides a small part of the water used for irrigation in that basin.

REVISIONS (WATER YEARS).--WSP 1397: 1912-13, 1919, 1926, 1928-33, 1937, 1939, 1940(M), 1941-43, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	57	102	35	74	54	212	383	563	361	79	36
2	21	32	95	30	68	54	188	399	617	312	79	36
3	21	39	81	30	65	53	164	391	691	287	76	36
4	21	33	70	31	65	54	143	419	735	275	71	35
5	21	32	62	32	61	62	135	483	845	272	68	35
6	21	35	57	31	73	64	133	563	746	257	68	35
7	22	31	90	29	88	61	127	617	630	260	64	35
8	20	34	84	26	55	61	131	719	536	284	62	35
9	20	49	73	23	52	59	164	708	504	305	61	35
10	20	83	67	30	52	55	176	585	527	269	59	35
11	21	144	62	42	53	57	176	467	603	242	58	37
12	23	176	59	55	54	68	183	407	752	215	55	36
13	22	125	55	70	54	74	176	354	889	203	54	35
14	21	97	49	110	54	76	176	326	978	198	54	34
15	21	84	49	170	53	85	193	296	1,030	198	53	33
16	19	88	67	270	62	105	212	272	1,040	188	51	32
17	18	80	69	210	61	157	234	251	1,040	174	49	32
18	18	73	70	186	61	191	266	248	990	167	48	32
19	18	62	75	159	61	181	272	220	912	164	48	31
20	21	56	72	135	58	157	269	223	829	157	48	31
21	26	56	75	118	55	141	257	223	688	143	47	31
22	25	51	70	105	54	131	286	242	617	135	46	31
23	29	66	70	96	53	123	326	287	603	125	45	30
24	29	66	66	91	55	171	370	333	603	118	44	29
25	28	67	68	89	60	133	375	395	567	111	43	29
26	26	66	55	85	69	163	367	527	491	105	42	29
27	23	63	56	88	67	169	309	645	427	100	40	29
28	26	66	53	77	69	188	270	650	391	96	39	30
29	29	68	51	73	------	176	256	603	372	91	38	29
30	25	70	60	70	------	215	293	563	368	88	38	29
31	63	------	63	77	------	220	------	565	------	83	37	------
TOTAL	716	1,907	2,041	2,665	1,636	3,486	6,832	13,252	20,576	5,981	1,666	962
MEAN	23.1	63.6	65.8	86.0	58.4	113	228	431	686	193	53.7	32.1
MAX	63	176	102	270	88	220	379	719	1,040	361	79	37
MIN	18	31	43	23	47	53	127	223	368	83	37	29
AC-FT	1,420	3,780	4,050	5,290	3,240	6,910	13,550	26,290	40,810	11,860	3,300	1,910

CAL YR 1973 TOTAL 25,770 MEAN 70.6 MAX 416 MIN 17 AC-FT 51,110
WTR YR 1974 TOTAL 61,[illegible] MEAN 169 MAX 1,040 MIN 18 AC-FT 122,[illegible]

PEAK DISCHARGE (BASE, [illegible] CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-8	2000	3.23	818	6-16	2200	3.80	1,150
6-5	0400	3.30	871				

13323500 GRANDE RONDE RIVER NEAR ELGIN, OREG.

LOCATION.--Lat 45°30'45", long 117°55'35", in NW¼NW¼ sec.3, T.1 S., R.39 E., Union County, on right bank 700 ft (213 m) upstream from abandoned highway bridge, 1.5 mi (2.4 km) downstream from Willow Creek, 3.6 mi (5.8 km) south of Elgin, and at mile 104.2 (167.7 km).

DRAINAGE AREA.--1,250 mi² (3,240 km²), approximately.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,660.31 ft (810.862 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 663 ft³/s (18.8 m³/s), 480,300 acre-ft/yr (592 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,240 ft³/s (120 m³/s) Jan. 17, gage height, 10.84 ft (3.304 m); minimum, 6.4 ft³/s (0.18 m³/s) Sept. 14, 15.

Period of record: Maximum discharge, 6,480 ft³/s (184 m³/s) Feb. 2, 1965, gage height, 13.79 ft (4.203 m); no flow Aug. 20-24, 1973.

Flood in May 1948 reached an elevation of 2,672.9 ft (814.70 m) on Corps of Engineers gage at bridge 700 ft (213 m) downstream, discharge, 5,690 ft³/s (161 m³/s), result of discharge measurement.

Floods in 1894 and 1917 were much higher, based on Corps of Engineers flood profiles.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	123	1,040	528	1,500	750	3,050	2,910	1,960	753	45	22
2	54	209	1,280	460	1,800	800	2,970	2,990	1,920	683	44	19
3	51	196	1,160	400	1,500	900	2,780	2,990	1,960	643	54	24
4	47	177	991	360	1,300	850	2,520	2,920	2,030	588	59	19
5	44	144	850	360	1,300	800	2,260	2,880	2,210	538	55	16
6	44	150	754	340	1,200	900	2,100	2,920	2,450	465	53	17
7	44	159	961	300	1,100	1,200	2,040	3,070	2,460	441	51	12
8	46	183	1,620	360	1,000	1,000	1,940	3,250	2,340	444	49	11
9	58	277	1,550	300	950	900	1,940	3,410	2,180	441	48	10
10	62	383	1,250	300	900	800	2,050	3,450	2,030	479	49	9.8
11	66	517	1,050	340	850	700	2,060	3,260	1,920	560	46	10
12	66	849	948	400	800	720	2,190	2,980	1,870	569	48	9.8
13	67	1,180	861	459	800	827	2,290	2,730	1,870	532	44	9.8
14	66	965	776	731	800	863	2,220	2,470	1,910	488	44	8.2
15	62	806	708	1,630	800	894	2,170	2,230	1,940	441	41	7.8
16	55	693	776	2,380	800	1,090	2,240	1,990	1,950	403	37	9.8
17	57	659	920	3,730	850	1,600	2,370	1,770	1,950	367	36	11
18	57	626	1,370	4,110	950	2,190	2,470	1,580	1,920	309	33	10
19	46	577	1,440	3,700	950	2,360	2,660	1,460	1,870	314	34	13
20	39	505	1,280	3,330	1,100	2,290	2,730	1,340	1,810	265	33	14
21	39	460	1,250	2,830	1,100	2,080	2,650	1,250	1,750	213	31	15
22	40	440	1,230	2,370	1,000	1,900	2,530	1,180	1,680	202	31	16
23	43	417	1,310	2,000	900	1,760	2,550	1,170	1,620	181	49	17
24	45	389	1,410	1,890	800	1,630	2,730	1,230	1,530	167	47	17
25	46	381	1,230	1,820	750	1,620	3,010	1,320	1,410	154	33	22
26	45	362	1,000	1,810	700	1,710	3,330	1,500	1,290	137	27	22
27	43	377	880	1,640	700	1,880	3,400	1,810	1,190	117	19	22
28	44	423	881	1,580	700	2,190	3,300	2,030	1,070	109	20	21
29	50	590	897	1,480	------	2,470	3,200	2,100	952	104	25	21
30	95	826	846	1,330	------	2,500	2,900	2,090	830	83	22	23
31	132	------	760	1,300	------	2,900	------	2,020	------	51	22	------
TOTAL	1,692	14,043	33,360	44,568	27,900	45,112	76,890	70,300	53,881	11,221	1,229	457.2
MEAN	54.6	468	1,076	1,438	996	1,455	2,563	2,268	1,796	362	39.6	15.2
MAX	132	1,180	1,620	4,110	1,800	2,900	3,400	3,450	2,460	753	59	24
MIN	39	123	708	300	700	700	1,940	1,170	830	51	19	7.8
AC-FT	3,360	27,850	66,170	88,400	55,340	89,480	152,500	139,400	106,900	22,260	2,440	907

CAL YR 1973 TOTAL 121,732.2 MEAN 334 MAX 1,620 MIN 0 AC-FT 241,500
WTR YR 1974 TOTAL 380,711.2 MEAN 1,043 MAX 4,110 MIN 7.8 AC-FT 755,100

NOTE.--No gage-height record Jan. 31 to Mar. 11.

13325000 EAST FORK WALLOWA RIVER NEAR JOSEPH, OREG.

LOCATION.--Lat 45°16'20", long 117°12'35", in NE¼ sec.29, T.3 S., R.45 E., Wallowa County, on left bank 0.2 mi (0.3 km) upstream from confluence with West Fork, 1.0 mi (1.6 km) upstream from Wallowa Lake, 5.5 mi (8.8 km) south of Joseph, and at mile 55.0 (88.5 km).

DRAINAGE AREA.--10.3 mi^2 (26.7 km^2).

PERIOD OF RECORD.--July 1924 to current year. Prior to October 1952, records published separately as East Fork Wallowa River near Joseph and Wallowa Falls powerplant tailrace near Joseph.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,517.69 ft (1,376.992 m) above mean sea level (Pacific Power & Light Co. bench mark). Prior to Apr. 8, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 21.7 ft^3/s (0.61 m^3/s), 28.61 in/yr (727 mm/yr), 15,720 acre-ft/yr (19.4 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 161 ft^3/s (4.56 m^3/s) June 24; minimum daily, 9.0 ft^3/s (0.25 m^3/s) Jan. 3, 4.
Period of record: Maximum discharge, 450 ft^3/s (12.7 m^3/s) July 25, 1937 (no flow in powerplant tailrace), from rating curve extended above 80 ft^3/s (2.27 m^3/s); minimum daily, 6.6 ft^3/s (0.19 m^3/s) Feb. 13, 1927.

REMARKS.--Records good. All records presented herein include flow in Wallowa Falls powerplant tailrace of Pacific Power & Light Co. Most of low flow is diverted at dam 1.5 mi (2.4 km) upstream into a conduit 1.0 mi (1.6 km) above Wallowa Falls powerhouse and discharged into West Fork 0.4 mi (0.6 km) below powerhouse.

REVISIONS (WATER YEARS).--WSP 1247: 1931, 1937(M), 1948-49, records for river station; 1948, records for tailrace station. WSP 137: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	14	10	12	11	12	17	37	105	47	20
2	12	11	14	9.4	12	11	12	17	40	103	46	19
3	12	10	14	9.0	12	10	11	17	47	93	45	19
4	12	9.9	13	9.0	12	10	11	19	53	89	43	19
5	12	11	13	9.1	11	10	11	21	55	87	41	20
6	11	12	13	9.2	11	10	11	22	52	83	43	22
7	12	13	13	9.2	11	10	11	26	45	83	41	22
8	12	13	13	9.4	11	10	11	31	41	88	38	22
9	12	17	13	9.4	11	10	11	30	41	105	36	21
10	11	21	13	9.4	11	10	11	27	45	94	34	22
11	11	37	12	9.7	11	10	11	25	50	82	33	20
12	11	39	12	9.8	11	11	11	24	56	70	32	21
13	11	26	13	9.7	11	10	11	22	69	66	31	20
14	11	22	13	11	11	10	10	22	85	64	31	20
15	11	21	13	19	10	11	11	21	87	68	30	20
16	11	19	13	26	11	11	11	20	108	70	29	19
17	11	20	13	21	11	13	11	19	121	70	28	17
18	11	18	12	18	11	11	11	19	126	70	27	19
19	11	17	12	17	11	11	11	18	122	73	27	19
20	11	16	12	17	11	11	11	18	116	76	27	19
21	11	16	12	15	10	11	11	18	107	71	25	19
22	11	15	12	14	10	11	12	18	100	60	23	19
23	13	15	12	14	10	11	13	21	126	66	23	18
24	12	15	12	14	10	10	14	23	151	62	23	18
25	12	15	12	13	10	11	15	27	144	58	23	18
26	11	14	11	13	10	11	15	33	129	58	22	17
27	11	14	12	13	10	11	14	39	115	52	22	18
28	11	14	12	13	10	11	14	43	106	51	21	18
29	11	14	12	12	-------	11	13	38	104	56	21	18
30	11	14	11	12	-------	13	15	35	106	49	21	15
31	14	-------	10	12	-------	12	-------	33	-------	48	20	-----
TOTAL	356	511.9	386	396.3	303	334	357	762	2,584	2,270	953	578
MEAN	11.5	17.1	12.5	12.8	10.8	10.8	11.9	24.6	86.1	73.2	30.7	19.3
MAX	14	39	14	26	12	13	15	43	151	105	47	22
MIN	11	9.9	10	9.0	10	10	10	17	37	48	20	15
CFSM	1.12	1.66	1.21	1.24	1.05	1.05	1.16	2.39	8.36	7.11	2.98	1.87
IN.	1.29	1.85	1.39	1.43	1.09	1.21	1.29	2.75	9.33	8.20	3.44	2.09
AC-FT	706	1,020	766	786	601	662	708	1,510	5,130	4,500	1,890	1,150

CAL YR 1973 TOTAL 5,522.3 MEAN 15.1 MAX 68 MIN 9.0 CFSM 1.47 IN 19.94 AC-FT 10,950
WTR YR 1974 TOTAL 9,789.2 MEAN 26.8 MAX 151 MIN 9.0 CFSM 2.60 IN 35.35 AC-FT 19,420

13326000 WALLOWA LAKE NEAR JOSEPH, OREG.

LOCATION.--Lat 45°20'10", long 117°13'15", in NW¼ sec.5, T.3 S., R.45 E., Wallowa County, at spillway near right end of Wallowa Lake dam on Wallowa River, 1.3 mi (2.1 km) southeast of Joseph, and at mile 50.2 (80.8 km).

DRAINAGE AREA.--50.8 mi^2 (131.6 km^2).

PERIOD OF RECORD.--November 1903 to July 1906 (gage height only), January 1912 to March 1914, May to September 1915 (gage heights and change in contents only), October 1925 to June 1926, December 1926 to current year. Monthend contents only for some periods, published in WSP 1317. November 1903 to March 1905 published as Wallowa River at Joseph. Change in contents for January 1912 to March 1914 and May to September 1915 published with records for Wallowa River at Joseph.

GAGE.--Water-stage recorder. Datum of gage is 4,355.66 ft (1,327.605 m) above mean sea level. Prior to Oct. 1, 1925, nonrecording gage at several sites within 0.5 mi (0.8 km) of present site at different datums. Oct. 1, 1925, to June 30, 1926, Dec. 1, 1926, to May 18, 1961, nonrecording gage near left end of dam at same datum.

EXTREMES.--Current year: Maximum contents, 44,940 acre-ft (55.4 hm^3) July 9, gage height, 28.12 ft (8.571 m); minimum, 7,550 acre-ft (9.31 hm^3) Oct. 1, gage height, 4.88 ft (1.487 m).

Period of record: Maximum contents observed, 47,830 acre-ft (59.0 hm^3) June 5-7, 1957, gage height, 29.85 ft (9.098 m); minimum observed, 4,790 acre-ft (5.91 hm^3) Oct. 10, 1929, gage height, 3.10 ft (0.945 m).

REMARKS.--Reservoir is formed by concrete dam. Capacity, 42,750 acre-ft (52.7 hm^3) between gage height 0.0 (sill of outlet gates) and 26.8 ft (8.169 m), spillway crest. About 5,300 acre-ft (6.53 hm^3) dead storage above outlet gates, because channel is about 3.4 ft (1.036 m) above outlet gates. Dead storage below outlet gates not known. Records are based on capacities above outlet gates.

REVISIONS.--WSP 1737: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	4.86	7,520	-
Oct. 31	5.47	8,470	+950
Nov. 30	8.30	12,880	+4,410
Dec. 31	9.83	15,280	+2,400
CAL YR 1973	-	-	-2,900
Jan. 31	12.51	19,520	+4,240
Feb. 28	13.85	21,640	+2,120
Mar. 31	14.91	23,340	+1,700
Apr. 30	17.21	27,030	+3,690
May 31	19.71	31,080	+4,050
June 30	27.91	44,590	+13,510
July 31	26.36	42,020	-2,570
Aug. 31	20.71	32,710	-9,310
Sept.30	17.75	27,900	-4,810
WTR YR 1974	-	-	+20,380

13327500 WALLOWA RIVER AT JOSEPH, OREG.

LOCATION.--Lat 45°20'15", long 117°13'35", in NW¼ sec.5, T.3 S., R.45 E., Wallowa County, on left bank 0.2 mi (0.3 km) downstream from Wallowa Lake dam, 1.1 mi (1.8 km) south of Joseph, and at mile 50.0 (80.4 km).

DRAINAGE AREA.--50.9 mi^2 (131.8 km^2).

PERIOD OF RECORD.--November 1903 to August 1907, June 1908 to March 1914, May to September 1915, December 1926 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Joseph" 1911.

GAGE.--Water-stage recorder. Datum of gage is 4,326.86 ft (1,318.827 m) above mean sea level. Nov. 12, 1903, to Sept. 25, 1915, nonrecording gage at several sites at lake outlet or near present site at different datums.

AVERAGE DISCHARGE.--47 years (1927-74), 134 ft^3/s (3.79 m^3/s), 35.75 in/yr (908 mm/yr), 97,080 acre-ft/yr (120 hm^3/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 688 ft^3/s (19.5 m^3/s) July 10, gage height, 4.28 ft (1.305 m); minimum, 9.3 ft^3/s (0.263 m^3/s) Oct. 30.
Period of record: Maximum discharge, 1,550 ft^3/s (43.9 m^3/s) June 10, 1969, gage height, 5.15 ft (1.570 m); no flow at times in some years.

REMARKS.--Records good. Monthly discharge adjusted for storage in Wallowa Lake (see station 13326000) and diversion from Wallowa Lake by Silver Lake ditch. Silver Lake ditch diverts at Wallowa Lake dam for irrigation northeast of Joseph. City of Joseph diverts less than 1.0 ft^3/s (0.028 m^3/s) from Wallowa Lake for municipal use.

REVISIONS (WATER YEARS).--WSP 1397: 1906. WSP 1737: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	27	19	25	22	20	23	17	474	580	412	190
2	24	27	18	25	21	28	23	17	486	640	385	186
3	24	27	17	25	21	29	23	17	506	656	358	184
4	24	25	18	25	21	28	23	22	522	616	360	182
5	24	25	19	25	20	27	23	27	527	602	363	182
6	24	27	18	25	18	27	23	43	510	597	375	176
7	23	28	19	25	18	27	23	62	486	565	355	172
8	24	28	19	25	18	27	21	82	464	511	345	170
9	24	29	21	25	17	26	14	87	457	576	345	170
10	24	30	22	25	17	26	14	83	455	648	358	170
11	24	46	21	25	17	26	14	80	449	664	363	170
12	24	103	22	25	17	25	13	79	470	572	360	160
13	24	137	22	23	17	25	12	77	491	492	348	141
14	24	145	22	22	17	25	12	92	486	424	345	124
15	24	142	22	22	17	25	15	97	481	394	335	121
16	24	153	22	22	17	24	17	112	460	400	333	121
17	24	154	22	22	16	24	17	116	449	412	305	112
18	25	136	21	22	16	24	17	105	465	445	298	102
19	25	97	20	23	17	24	17	106	487	492	278	92
20	24	78	19	23	18	24	17	105	491	572	270	92
21	25	71	22	23	18	24	17	119	475	620	253	96
22	25	51	23	23	19	24	17	181	473	620	231	107
23	24	44	23	23	19	24	17	254	478	588	238	112
24	23	42	23	23	19	24	17	292	487	516	242	112
25	23	41	22	23	19	24	17	317	524	456	210	121
26	23	35	22	23	19	24	17	322	492	430	212	126
27	23	32	22	23	19	23	17	328	484	409	200	116
28	22	35	21	23	18	23	17	365	484	409	194	111
29	15	27	21	23	------	23	17	400	482	424	192	111
30	12	21	21	23	------	23	17	441	498	427	192	77
31	21	------	21	23	------	23	------	465	------	418	192	------
TOTAL	716	1,863	644	732	512	770	531	4,910	14,490	16,175	9,267	4,106
MEAN	23.1	62.1	20.8	23.6	18.3	24.8	17.7	158	483	522	299	137
MAX	25	154	23	25	22	29	23	465	527	664	412	190
MIN	12	21	17	22	16	20	12	17	449	394	192	77
AC-FT	1,420	3,700	1,280	1,450	1,020	1,530	1,050	9,740	28,740	32,080	18,380	8,140
MEAN†	42.8	166	66.2	93.1	57.8	56.6	81.7	232	775	535	196	78.3
CFSM†	.84	3.26	1.30	1.83	1.14	1.11	1.61	4.56	15.2	10.5	3.85	1.54
IN.†	.97	3.64	1.50	2.11	1.18	1.28	1.79	5.26	16.98	12.12	4.44	1.72
AC-FT†	2,630	9,880	4,070	5,720	3,210	3,480	4,860	14,260	46,110	32,890	12,050	4,660

CAL YR 1973 TOTAL 33,133 MEAN 90.8 MAX 500 MIN 12 AC-FT 65,720 MEAN† 106 CFSM† 2.08 IN.† 28.27 AC-FT† 76,720
WTR YR 1974 TOTAL 54,716 MEAN 150 MAX 664 MIN 12 AC-FT 108,500 MEAN† 197 CFSM† 3.87 IN.† 52.53 AC-FT† 142,600

† Adjusted for change in contents of Wallowa Lake and diversion by Silver Lake ditch.

13329500 HURRICANE CREEK NEAR JOSEPH, OREG.

LOCATION.--Lat 45°20'15", long 117°17'30", in NE¼ sec.3, T.3 S., R.44 E., Wallowa County, on left bank 350 ft (107 m) upstream from intake of Moonshine ditch, 3.5 mi (5.6 km) southwest of Joseph, and at mile 7.5 (12.1 km).

DRAINAGE AREA.--29.6 mi^2 (76.7 km^2).

PERIOD OF RECORD.--April to September 1915, April 1924 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,370 m), by barometer. Apr. 27 to Sept. 3, 1915, nonrecording gage at site 250 ft (76 m) downstream at different datum. Apr. 23, 1924, to June 13, 1933, water-stage recorder at site 150 ft (46 m) downstream at different datum.

AVERAGE DISCHARGE.--50 years, 74.5 ft^3/s (2.11 m^3/s), 34.18 in/yr (868 mm/yr), 53,980 acre-ft/yr (66.6 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 877 ft^3/s (24.8 m^3/s) June 17, gage height, 5.11 ft (1.558 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 28, 29.

Period of record: Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) June 9, 1948, gage height, 3.55 ft (1.082 m); maximum gage height, 5.11 ft (1.558 m) June 17, 1974; minimum discharge, 2.8 ft^3/s (0.079 m^3/s) Mar. 2, 1955, result of ice jam upstream; minimum daily, 6.0 ft^3/s (0.17 m^3/s) Jan. 6, Apr. 13, 1945.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1397: 1915, 1925-28. WSP 1737: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	29	36	22	35	25	29	73	204	405	176	70
2	25	25	35	23	34	25	28	78	236	355	169	68
3	24	25	34	23	34	23	28	80	280	324	159	64
4	24	25	35	23	33	24	27	90	320	337	155	66
5	24	27	36	23	33	24	27	110	330	337	149	64
6	24	29	34	24	29	23	27	125	280	315	155	62
7	25	31	35	24	31	22	27	149	240	328	140	60
8	24	37	34	25	31	23	27	175	209	373	122	58
9	23	43	33	25	31	22	28	175	209	415	115	58
10	23	60	32	25	30	23	27	152	236	315	112	58
11	23	120	32	27	30	22	27	137	295	265	112	56
12	22	115	31	28	29	23	27	123	362	241	109	54
13	23	90	31	27	28	22	26	115	462	253	104	53
14	23	70	31	27	28	22	26	110	549	301	99	51
15	23	58	31	52	27	22	27	100	686	342	94	49
16	22	50	34	79	27	24	29	95	616	324	92	49
17	22	45	34	67	27	30	32	88	676	306	92	48
18	21	43	32	58	27	27	35	85	616	319	92	46
19	21	41	31	53	26	26	36	80	628	342	92	46
20	22	40	32	49	25	25	35	78	605	328	85	44
21	23	40	32	47	25	25	35	75	588	297	83	44
22	24	40	31	45	25	25	39	75	588	270	81	42
23	26	40	31	45	25	25	44	85	599	245	81	42
24	26	39	30	44	25	25	53	100	605	222	81	42
25	25	37	30	43	25	26	63	123	550	208	78	41
26	24	36	26	41	25	26	63	179	470	201	81	41
27	25	35	27	39	24	28	61	222	415	190	78	41
28	24	35	28	38	25	29	59	222	410	194	76	38
29	25	35	28	37	------	28	57	209	405	194	76	38
30	25	36	27	37	------	31	63	183	415	197	74	38
31	35	------	26	36	------	29	------	187	------	190	72	------
TOTAL	746	1,376	979	1,156	794	774	1,112	3,878	13,084	8,933	3,284	1,531
MEAN	24.1	45.9	31.6	37.3	28.4	25.0	37.1	125	436	288	106	51.0
MAX	35	120	36	79	35	31	63	222	686	415	176	70
MIN	21	25	26	22	24	22	26	73	204	190	72	38
CFSM	.81	1.55	1.07	1.26	.96	.84	1.25	4.22	14.7	9.73	3.58	1.72
IN.	.94	1.73	1.23	1.45	1.00	.97	1.40	4.87	16.44	11.23	4.13	1.92
AC-FT	1,480	2,730	1,940	2,290	1,570	1,540	2,210	7,690	25,950	17,720	6,510	3,040

CAL YR 1973 TOTAL 19,324 MEAN 52.9 MAX 310 MIN 13 CFSM 1.79 IN 24.29 AC-FT 38,330
WTR YR 1974 TOTAL 37,647 MEAN 103 MAX 686 MIN 21 CFSM 3.48 IN 47.31 AC-FT 74,670

PEAK DISCHARGE (BASE, 400 CFS).--June 17 (1700) 877 cfs (5.11 ft).

NOTE.--No gage-height record Nov. 6 to Dec. 11.

13330000 LOSTINE RIVER NEAR LOSTINE, OREG.

LOCATION.--Lat 45°26'20", long 117°25'35", in NW¼ sec.34, T.1 S., R.43 E., Wallowa County, on left bank 3.5 mi (5.6 km) south of Lostine and at mile 10.0 (16.1 km).

DRAINAGE AREA.--70.9 mi² (183.6 km²).

PERIOD OF RECORD.--August 1912 to March 1914, April to September 1915, July 1925 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 3,650 ft (1,110 m), by barometer. See WSP 1317 or 1737 for history of changes prior to Dec. 16, 1953.

AVERAGE DISCHARGE.--50 years (1912-13, 1925-74), 196 ft³/s (5.55 m³/s), 142,000 acre-ft per/yr (175 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, gage height, 7.55 ft (2.301 m); minimum, 29 ft³/s (0.82 m³/s) Oct. 20.
Period of record: Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, 1974, gage height, 7.55 ft (2.301 m); minimum, 7.5 ft³/s (0.21 m³/s) Mar. 2, 1966, result of freezeup; minimum daily, 10 ft³/s (0.28 m³/s) Nov. 28-30, 1936.

REMARKS.--Records good. Minam Lake Reservoir, capacity, 440 acre-ft (0.54 hm³), has stored and diverted flow from Minam River since 1917 for irrigation in Lostine River basin. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1397: 1913, 1942. WSP 1737: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	91	103	68	94	57	94	284	690	1,250	352	98
2	40	58	98	68	88	55	88	288	823	1,040	342	93
3	38	55	94	66	84	51	84	297	989	927	310	86
4	37	55	89	64	83	51	79	328	1,140	959	299	82
5	36	55	85	62	80	53	77	393	1,290	975	282	80
6	35	60	84	60	73	52	76	473	921	885	286	75
7	38	56	106	68	77	48	74	537	704	908	255	70
8	35	61	97	60	72	48	72	665	577	1,020	213	65
9	33	131	87	60	70	47	77	672	567	1,170	190	63
10	33	216	89	64	68	49	75	549	646	873	180	61
11	33	496	85	64	67	48	75	460	862	704	178	60
12	32	696	81	76	65	50	75	403	1,210	607	171	57
13	32	421	73	120	63	49	72	354	1,540	648	158	54
14	36	300	75	250	63	47	72	319	1,910	755	150	52
15	34	251	73	500	62	48	75	284	2,200	873	138	49
16	33	222	89	720	64	57	82	257	2,260	846	132	47
17	31	198	112	500	62	89	92	235	2,290	762	129	46
18	30	178	107	320	62	82	110	220	2,290	765	129	44
19	30	154	97	240	66	77	120	204	2,130	813	129	43
20	32	146	96	190	61	71	116	192	1,940	798	117	42
21	38	141	[illegible]5	160	59	71	114	181	1,540	713	110	41
22	44	134	[illegible]1	140	57	70	129	187	1,550	645	107	40
23	46	125	[illegible]8	130	55	68	158	215	1,650	573	104	39
24	47	118	[illegible]6	122	54	68	217	259	1,780	505	105	38
25	45	115	[illegible]4	119	54	69	267	342	1,650	460	124	38
26	39	110	[illegible]7	113	53	71	249	567	1,410	428	123	37
27	41	104	[illegible]1	108	52	77	220	762	1,170	400	120	37
28	44	103	[illegible]7	104	53	86	199	773	1,140	398	117	37
29	43	101	[illegible]7	99	------	85	188	707	1,130	403	113	36
30	43	99	[illegible]3	95	------	101	215	622	1,210	400	108	35
31	76	------	[illegible]0	97	------	100	------	632	------	381	103	------
TOTAL	1,196	5,050	2,728	4,907	1,861	1,995	3,641	12,661	41,209	22,884	5,374	1,645
MEAN	38.6	168	88.0	158	66.5	64.4	121	408	1,374	738	173	54.8
MAX	76	696	112	720	94	101	267	773	2,290	1,250	352	98
MIN	30	55	70	60	52	47	72	181	567	381	103	35
AC-FT	2,370	10,020	5,410	9,730	3,690	3,960	7,220	25,110	81,740	45,390	10,660	3,260

CAL YR 1973 TOTAL 52,729 MEAN 144 MAX 937 MIN 29 AC-FT 104,600
WTR YR 1974 TOTAL 105,191 MEAN 288 MAX 2,290 MIN 30 AC-FT 208,600

PEAK DISCHARGE (BASE, 1,000 CFS).--June 5 (0630) 1,660 cfs (5.69 ft); June 16 (0130) 2,550 cfs (7.55 ft).

13330500 BEAR CREEK NEAR WALLOWA, OREG.

LOCATION.--Lat 45°31'37", long 117°33'05", in NW¼NE¼ sec.34, T.1 N., R.42 E., Wallowa County, on right bank 30 ft (9 m) downstream from road bridge, 3.0 mi (4.8 km) southwest of Wallowa, and at mile 4.4 (7.1 km).

DRAINAGE AREA.--68 mi² (176 km²), approximately.

PERIOD OF RECORD.--April to September 1915, April 1924 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 3,250 ft (991 m), by barometer. Apr. 13 to Sept. 16, 1915, nonrecording gage at site 1.0 mi (1.6 km) upstream at different datum. Apr. 22, 1924, to Nov. 2, 1931, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--50 years (1924-74), 114 ft³/s (3.23 m³/s), 82,590 acre-ft/yr (102 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) June 15, gage height, 3.58 ft (1.091 m); maximum gage height, 3.67 ft (1.119 m) Jan. 16 (backwater from ice); minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 23-30.

Period of record: Maximum discharge, 1,730 ft³/s (49.0 m³/s) June 15, 1974, gage height, 3.58 ft (1.091 m); maximum gage height, 3.67 ft (1.119 m) Jan. 16, 1974 (backwater from ice); minimum daily discharge, 3 ft³/s (0.085 m³/s) Jan. 20, Feb. 1, 1937.

REMARKS.--Records good. No regulation. Diversions for irrigation above station. Water for irrigation in Lostine River basin diverted from Little Bear Creek, a tributary above station, in sec.32, T.1 N., R.43 E.

REVISIONS (WATER YEARS).--WSP 1397: 1915, 1927, 1929-30, 1932, 1936-40, 1945, 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	58	80	49	76	44	136	300	485	532	66	17
2	13	36	83	49	70	44	126	307	565	430	64	16
3	13	33	81	49	66	44	111	297	695	381	59	16
4	13	31	75	47	66	44	99	320	821	386	55	15
5	12	29	70	45	60	48	93	373	1,060	386	49	15
6	13	31	66	42	53	46	91	441	850	360	47	15
7	15	26	100	52	56	44	85	474	679	365	43	14
8	12	29	122	41	52	44	83	593	574	381	39	14
9	12	101	118	41	49	43	87	579	539	375	36	14
10	12	239	107	49	48	42	85	440	588	316	34	14
11	12	421	100	49	48	42	86	347	708	271	32	14
12	12	561	90	66	48	43	87	284	940	235	31	14
13	12	369	82	110	48	42	85	237	1,200	244	29	14
14	13	253	74	190	48	41	84	210	1,370	267	28	13
15	12	197	71	330	46	43	89	187	1,440	285	28	13
16	12	172	80	525	49	50	100	171	1,380	258	26	13
17	12	149	132	375	47	111	114	156	1,480	220	24	12
18	12	133	168	315	46	150	135	149	1,330	221	24	12
19	12	113	154	292	49	145	143	136	1,240	225	24	12
20	12	104	139	235	46	131	139	129	1,050	211	24	12
21	13	95	133	191	45	118	132	124	830	179	22	12
22	13	87	127	161	45	108	144	132	830	159	22	12
23	13	78	120	140	43	98	176	157	880	138	21	12
24	14	73	112	125	42	90	244	203	900	120	21	11
25	15	69	108	117	41	89	306	282	840	106	20	11
26	13	65	99	106	41	90	288	485	651	97	19	11
27	13	61	98	97	40	101	250	644	553	86	19	11
28	15	59	90	90	40	116	219	596	525	79	19	12
29	16	63	82	84	------	118	196	532	511	79	18	11
30	16	68	73	79	------	132	217	484	560	84	17	11
31	37	------	67	79	------	137	------	450	------	73	17	------
TOTAL	425	3,803	3,101	4,220	1,408	2,438	4,230	10,199	26,074	7,557	977	393
MEAN	13.7	127	100	136	50.3	78.6	141	329	869	244	31.5	13.1
MAX	37	561	168	525	76	150	306	644	1,480	532	66	17
MIN	12	26	66	41	40	41	83	124	485	73	17	11
AC-FT	843	7,540	6,150	8,370	2,790	4,840	8,390	20,230	51,720	14,990	1,940	780

CAL YR 1973 TOTAL 32,328.2 MEAN 88.6 MAX 705 MIN 7.0 AC-FT 64,120
WTR YR 1974 TOTAL 64,825.0 MEAN 178 MAX 1,480 MIN 11 AC-FT 128,600

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1030	2.86	618	6-15	0830	3.58	1,730
1-16	2330	2.87	603				

13331500 MINAM RIVER AT MINAM, OREG.
(Hydrologic bench-mark station)

LOCATION.--Lat 45°37'12", long 117°43'32", in SW¼SW¼ sec.29, T.2 N., R.41 E., Wallowa County, on left bank 2.3 mi (3.7 km) downstream from Squaw Creek, 0.3 mi (0.5 km) west of Minam, and at mile 0.3 (0.5 km).

DRAINAGE AREA.--240 mi² (622 km²), approximately.

PERIOD OF RECORD.--June 1912 to March 1914, September 1965 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 2,540.48 ft (774.338 m) above mean sea level. June 1912 to March 1914, nonrecording gage at approximately same site at different datum.

AVERAGE DISCHARGE.--10 years, 494 ft³/s (14.0 m³/s), 27.95 in/yr (710 mm/yr), 357,900 acre-ft/yr (441 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,260 ft³/s (177 m³/s) June 16, gage height, 6.89 ft (2.100 m); minimum, 63 ft³/s (1.78 m³/s) Oct. 19, 20.

Period of record: Maximum discharge, 6,260 ft³/s (177 m³/s) June 16, 1974, gage height, 6.89 ft (2.100 m); maximum gage height, 7.3 ft (2.23 m) May 28, 1913, datum then in use; minimum discharge, 10 ft³/s (0.28 m³/s) Dec. 6, 1972, Jan. 10, 1973, result of freezeup.

REMARKS.--Records good. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	323	525	251	398	236	506	972	1,850	2,350	520	132
2	83	183	515	200	375	242	479	986	2,120	2,020	506	128
3	81	146	461	160	351	230	438	965	2,470	1,790	479	125
4	78	146	416	180	355	233	407	1,010	2,700	1,760	443	119
5	76	144	367	170	331	274	393	1,170	3,210	1,790	416	117
6	78	169	351	130	288	295	393	1,410	2,750	1,630	398	115
7	85	154	590	140	292	267	375	1,530	2,290	1,620	375	110
8	80	162	748	150	285	267	375	1,860	1,920	1,750	339	108
9	73	380	555	120	264	236	402	1,910	1,810	2,160	303	106
10	71	694	483	130	251	242	411	1,560	1,910	1,730	281	104
11	71	1,050	434	162	251	236	416	1,310	2,290	1,490	264	104
12	73	1,700	398	200	254	239	467	1,170	2,950	1,280	254	102
13	73	1,190	367	323	251	242	438	1,020	3,680	1,230	242	100
14	76	895	343	425	248	236	425	951	4,460	1,290	233	96
15	73	760	331	818	239	242	434	888	5,160	1,410	221	94
16	69	712	363	1,040	264	274	465	811	4,980	1,380	212	91
17	68	640	609	993	267	560	488	756	4,720	1,250	200	87
18	66	575	778	797	267	605	540	712	5,000	1,190	194	85
19	65	501	610	784	292	525	555	658	4,670	1,230	189	83
20	66	456	525	642	285	452	520	622	4,190	1,200	180	83
21	81	438	530	570	271	411	488	595	3,420	1,100	180	81
22	89	407	530	501	240	389	525	616	3,300	1,020	172	80
23	91	375	520	465	245	355	610	712	3,310	937	167	78
24	113	363	479	438	226	339	772	867	3,440	825	164	78
25	104	367	488	438	233	343	902	1,010	3,230	762	159	76
26	91	335	434	420	226	355	876	1,480	2,840	694	196	75
27	85	319	430	407	210	407	790	1,940	2,370	634	151	73
28	94	327	411	411	215	465	730	1,960	2,240	605	149	73
29	104	425	389	371	------	452	682	1,850	2,190	600	144	73
30	94	470	351	398	------	501	768	1,710	2,200	580	141	73
31	178	------	323	386	------	525	------	1,740	------	555	137	------
TOTAL	2,616	14,806	14,669	12,619	7,696	10,675	16,028	36,728	93,750	50,042	7,978	2,849
MEAN	84.4	494	473	407	275	344	534	1,185	3,125	1,614	257	95.0
MAX	178	1,700	778	1,040	398	605	902	1,960	5,160	2,350	520	132
MIN	65	144	323	120	210	230	375	595	1,810	555	137	73
CFSM	.35	2.06	1.97	1.70	1.15	1.43	2.23	4.94	13.0	6.73	1.07	.40
IN.	.41	2.29	2.27	1.96	1.19	1.65	2.48	5.69	14.53	7.76	1.24	.44
AC-FT	5,190	29,370	29,100	25,030	15,270	21,170	31,790	72,850	186,000	99,260	15,820	5,650

CAL YR 1973 TOTAL 123,911 MEAN 339 MAX 1,880 MIN 11 CFSM 1.41 IN 19.21 AC-FT 245,800
WTR YR 1974 TOTAL 260,210 MEAN 713 MAX 5,160 MIN 65 CFSM 2.97 IN 40.33 AC-FT 516,100

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	[illegible]	[illegible]	[illegible]	6-16	[illegible]	6.89	6,260
[illegible]	[illegible]	[illegible]	[illegible]				

13332500 GRANDE RONDE RIVER AT RONDOWA, OREG.

LOCATION.--Lat 45°43'36", long 117°46'59", in SW¼NW¼ sec.23, T.3 N., R.40 E., Wallowa County, on right bank at Rondowa, 500 ft (152 m) downstream from Wallowa River, 13 mi (21 km) northeast of Elgin, and at mile 81.4 (131.0 km).

DRAINAGE AREA.--2,555 mi² (6,617 km²).

PERIOD OF RECORD.--October 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,281.87 ft (695.514 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 2,137 ft³/s (60.5 m³/s), 1,548,000 acre-ft/yr (1.91 km³/yr).

EXTREMES.--Current year: Maximum discharge, 14,800 ft³/s (419 m³/s) June 18, gage height, 8.05 ft (2.454 m); minimum, 456 ft³/s (12.9 m³/s) Oct. 19, 20.
Period of record: Maximum discharge, 24,700 ft³/s (700 m³/s) Jan. 30, 1965, gage height, 10.93 ft (3.331 m); minimum, 220 ft³/s (6.23 m³/s) Aug. 22, 1973.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow slightly regulated by Wallowa Lake (see station 13326000) and small reservoirs. Diversions for irrigation above station, chiefly in vicinity of La Grande, Enterprise, and Wallowa; one transbasin diversion from Sheep Creek in Imnaha River basin for irrigation in Wallowa Valley.

REVISIONS (WATER YEARS).--WSP 1093: 1928-29, 1932-33, 1936, 1938, 1939(M), 1943, WSP 1397: 1927. WSP 1447: 1927.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	1,050	3,250	1,550	3,800	1,900	6,500	7,250	6,840	6,350	1,350	586
2	510	816	3,400	1,400	3,400	2,200	6,290	7,200	7,290	5,620	1,320	572
3	510	766	3,010	1,200	3,000	2,000	5,700	7,040	8,290	5,030	1,320	571
4	504	748	2,610	1,200	2,800	2,000	5,070	7,060	9,100	4,880	1,240	566
5	492	723	2,240	1,100	2,600	2,200	4,640	7,400	11,600	4,890	1,180	546
6	492	761	2,080	1,000	2,400	2,600	4,490	8,100	10,400	4,630	1,130	548
7	522	753	3,930	1,200	2,200	2,400	4,290	8,590	8,940	4,560	1,090	527
8	504	811	4,590	1,000	2,000	2,200	4,170	9,640	7,610	4,700	1,020	527
9	492	1,790	3,720	1,000	1,800	2,000	4,260	9,970	7,060	5,470	935	545
10	498	2,640	3,080	1,200	1,800	1,900	4,420	8,940	7,020	4,910	876	570
11	504	3,660	2,670	1,400	1,700	1,800	4,380	7,930	7,640	4,550	851	571
12	504	6,340	2,440	1,600	1,700	2,000	4,650	7,190	9,200	4,030	856	582
13	504	4,950	2,320	1,800	1,600	2,260	4,640	6,420	10,700	3,800	833	541
14	504	3,820	2,120	2,200	1,600	2,220	4,530	5,900	12,200	3,820	845	551
15	498	3,590	2,000	4,600	1,600	2,350	4,590	5,410	13,400	4,000	840	532
16	486	3,390	2,550	9,500	1,800	2,770	4,850	4,900	13,800	3,970	824	492
17	474	2,980	4,150	9,000	2,000	4,310	5,090	4,490	13,700	3,600	824	493
18	480	2,640	4,590	7,500	1,900	5,110	5,400	4,160	13,800	3,300	819	495
19	468	2,200	3,950	7,500	2,200	5,030	5,680	3,800	12,800	3,480	821	489
20	462	2,010	3,470	6,000	2,200	4,040	5,630	3,670	12,100	3,300	831	484
21	474	1,870	3,710	5,000	2,000	4,260	5,440	3,570	10,100	3,110	811	473
22	486	1,760	3,600	4,400	1,900	4,000	5,540	3,570	9,420	2,870	739	481
23	504	1,670	3,980	4,000	1,800	3,710	5,850	3,810	9,040	2,500	720	479
24	528	1,590	3,730	3,800	1,700	3,570	6,460	4,230	9,800	2,250	752	470
25	534	1,570	3,610	3,800	1,600	3,560	7,570	4,600	9,420	1,960	732	480
26	510	1,520	2,990	3,800	1,600	3,750	8,040	5,090	8,320	1,700	677	482
27	486	1,500	2,700	3,600	1,500	4,270	7,670	7,410	7,990	1,640	661	475
28	510	1,660	2,530	3,400	1,400	4,920	7,180	7,770	6,580	1,530	639	469
29	540	2,620	2,450	3,000	------	5,180	6,730	7,480	6,220	1,520	620	488
30	522	2,910	2,240	2,900	------	6,420	6,650	7,240	6,790	1,500	629	499
31	682	------	2,060	3,000	------	6,840	------	6,960	------	1,420	617	------
TOTAL	15,676	65,120	95,770	103,550	57,800	104,320	166,400	197,450	286,560	111,220	27,410	15,654
MEAN	506	2,171	3,089	3,340	2,064	3,365	5,547	6,369	9,552	3,588	884	522
MAX	682	6,340	4,590	9,500	3,800	6,840	8,040	9,970	13,800	6,350	1,350	586
MIN	462	723	2,000	1,000	1,400	1,800	4,170	3,570	6,220	1,420	617	470
AC-FT	31,090	129,200	190,000	205,400	114,600	206,900	330,100	391,600	568,400	220,600	54,370	31,050

CAL YR 1973 TOTAL 527,570 MEAN 1,445 MAX 6,340 MIN 220 AC-FT 1,046,000
WTR YR 1974 TOTAL 1,246,930 MEAN 3,416 MAX 13,800 MIN 462 AC-FT 2,473,000

PEAK DISCHARGE (BASE, 6,300 FT³/S)

NOTE.--No gage-height record Jan. 3 to Mar. 12.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	[illegible]	[illegible]	[illegible]	6- 8	[illegible]	[illegible]	[illegible]
1-16	unknown	[illegible]	[illegible]	6-18	[illegible]	8.05	14,800
3-28	[illegible]	[illegible]	[illegible]				

13333000 GRANDE RONDE RIVER AT TROY, OREG.

LOCATION.--Lat 45°56'47", long 117°26'54", in NW¼NW¼ sec.4, T.5 N., R.43 E., Wallowa County, on left bank 500 ft (152 m) downstream from bridge at Troy, 600 ft (183 m) downstream from Wenaha River, and at mile 45.2 (72.7 km).

DRAINAGE AREA.--3,275 mi² (8,482 km²).

PERIOD OF RECORD.--August 1944 to current year. Monthly discharge only August 1944, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 1,585.98 ft (483.407 m) above mean sea level. Aug. 17, 1944, to Sept. 30, 1949, nonrecording gage at site 500 ft (152 m) upstream at datum 10.85 ft (3.307 m) lower. Oct. 1, 1949, to Sept. 5, 1963, water-stage recorder at site 500 ft (152 m) upstream at datum 1.15 ft (0.351 m) higher.

AVERAGE DISCHARGE.--30 years, 3,150 ft³/s (89.2 m³/s), 2,282,000 acre-ft/yr (2.81 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 23,300 ft³/s (660 m³/s) Jan. 17, gage height, 9.00 ft (2.743 m); minimum, 672 ft³/s (19.0 m³/s) Oct. 19-21.

Period of record: Maximum discharge, 42,200 ft³/s (1,200 m³/s) Dec. 23, 1964, gage height, 11.25 ft (3.429 m); minimum, 405 ft³/s (11.5 m³/s) Aug. 22, 23, 1973.

REMARKS.--Records good. Flow slightly regulated by Wallowa Lake (see sta 13326000) and small reservoirs. Diversions for irrigation above station, chiefly in vicinity of La Grande, Enterprise, and Wallowa; one transbasin diversion from Big Sheep and tributaries in Imnaha River basin for irrigation in Wallowa Valley.

REVISIONS (WATER YEARS).--WSP 1397: 1946(M), 1948-50.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	705	1,360	4,510	2,420	6,470	3,090	10,400	12,500	9,000	7,130	1,640	879
2	705	1,150	5,190	2,000	5,630	3,480	9,600	11,600	9,470	6,550	1,630	859
3	716	1,050	4,510	2,000	4,730	3,380	8,420	10,900	10,700	5,810	1,640	859
4	716	1,020	3,900	2,000	4,570	3,170	7,480	10,800	11,700	5,530	1,540	851
5	705	1,000	3,350	1,900	4,380	3,430	6,780	11,400	15,500	5,530	1,460	827
6	705	987	3,040	1,700	3,930	4,760	6,510	12,600	14,300	5,290	1,390	817
7	739	1,020	4,420	2,000	3,540	4,050	6,400	13,100	12,100	5,120	1,360	808
8	727	1,050	7,090	1,700	3,400	3,540	6,340	14,300	10,100	5,190	1,320	801
9	705	1,820	5,630	1,700	3,220	3,170	6,540	14,500	9,260	5,870	1,240	805
10	705	3,350	4,510	2,100	3,070	2,990	6,620	12,600	9,090	5,630	1,170	839
11	716	4,350	3,900	2,400	2,970	2,920	6,540	10,900	9,600	5,230	1,130	849
12	716	8,670	3,540	2,600	2,920	3,120	7,020	9,950	11,200	4,670	1,120	858
13	716	7,210	3,320	2,750	2,870	3,430	6,700	8,880	12,900	4,310	1,100	848
14	716	5,250	3,070	3,590	2,840	3,380	6,660	8,140	14,500	4,270	1,090	841
15	716	4,790	2,890	11,600	2,840	3,380	7,260	7,480	15,800	4,410	1,100	808
16	705	5,700	3,480	21,900	3,090	3,930	8,140	6,700	16,100	4,420	1,070	776
17	694	5,020	5,460	18,900	3,540	6,630	8,460	6,100	16,000	4,060	1,060	760
18	683	4,050	7,090	14,800	3,460	8,140	8,900	5,600	15,900	3,810	1,080	762
19	683	3,400	5,920	15,300	3,960	7,600	9,180	5,250	15,000	3,860	1,070	759
20	672	2,970	5,050	11,900	3,900	6,700	8,860	4,990	14,300	3,810	1,080	753
21	672	2,700	5,190	9,090	3,590	6,210	8,580	4,960	12,000	3,520	1,070	749
22	705	2,510	5,190	7,560	3,350	5,810	9,020	5,090	11,200	3,270	1,030	749
23	716	2,340	5,530	6,660	3,020	5,350	9,380	5,630	11,100	3,010	1,010	753
24	739	2,250	5,390	6,400	2,870	5,090	10,600	6,210	11,200	2,650	1,030	747
25	773	2,180	5,150	6,660	2,800	5,290	13,000	6,780	10,700	2,370	1,030	734
26	750	2,120	4,350	6,550	2,720	5,770	14,100	8,460	9,640	2,130	976	737
27	716	2,080	3,930	5,850	2,680	7,090	13,600	10,100	8,260	1,980	944	739
28	716	2,120	3,570	5,530	2,720	8,340	12,000	10,500	7,560	1,850	923	746
29	773	3,250	3,400	5,120	------	8,420	11,000	10,000	7,050	1,810	907	752
30	749	3,930	3,140	4,700	------	10,400	11,200	9,470	6,930	1,810	901	762
31	895	------	2,890	5,290	------	11,900	------	9,050	------	1,710	898	------
TOTAL	22,349	90,697	137,600	194,670	99,080	163,960	265,290	284,540	348,160	126,610	36,009	23,827
MEAN	721	3,023	4,439	6,280	3,539	5,289	8,843	9,179	11,610	4,084	1,162	794
MAX	895	8,670	7,090	21,900	6,470	11,900	14,100	14,500	16,100	7,130	1,640	879
MIN	672	987	2,890	1,700	2,680	2,920	6,340	4,960	6,930	1,710	898	734
AC-FT	44,330	179,900	272,900	386,100	196,500	325,200	526,200	564,400	690,600	251,100	71,420	47,260

CAL YR 1973 TOTAL 750,620 MEAN 2,056 MAX 8,670 MIN 423 AC-FT 1,489,000
WTR YR 1974 TOTAL 1,792,792 MEAN 4,912 MAX 21,900 MIN 672 AC-FT 3,556,000

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1130	6.22	9,180	4-25	1030	7.40	14,300
1-17	0030	9.00	23,300	6-16	0700	7.64	16,600
3-31	0130	7.24	13,000				

13353000. Snake River below Ice Harbor Dam, Wash.

LOCATION.--Lat 46°14'53", long 118°52'43", in NE¼SW¼ sec.24, T.9 N., R.31 E., Walla Walla County, in powerhouse forebay pier P-1 on south side of Bay 1 at Ice Harbor Dam, 8.0 mi (12.9 km) northeast of Burbank, and at mile 9.7 (15.6 km).

DRAINAGE AREA.--108,500 mi^2 (281,000 km^2), approximately.

PERIOD OF RECORD.--October 1907 to March 1917 (gage heights only October 1907 to August 1909), March 1962 to current year. Published as "at Burbank" prior to 1911 and as "near Burbank" 1912-17.

GAGE.--Watt-hour meters on each turbine in Ice Harbor Dam powerhouse. Elevations are at mean sea level datum. Oct. 2, 1907, to Mar. 31, 1917, nonrecording gage at site approximately 2 mi (3.2 km) downstream at datum 300 ft (91 m) higher. Mar. 23, 1962, to Sept. 30, 1968, water-stage recorder 1.0 mi (1.6 km) downstream at mean sea level datum.

EXTREMES.--Current year: Maximum discharge, 312,000 ft^3/s (8,840 m^3/s) June 19; maximum forebay elevation, 440.2 ft (134.17 m) July 18; minimum discharge, 6,100 ft^3/s (173 m^3/s) Sept. 30; minimum forebay elevation, 436.9 ft (133.17 m) Nov. 26, Aug. 28.

Period of record: Maximum discharge, 312,000 ft^3/s (8,840 m^3/s) June 19, 1974; no flow momentarily Aug. 27, 1965 (result of testing at Ice Harbor Dam).

Flood of May 30, 1948, reached an elevation of 361.9 ft (110.31 m) at a site 0.7 mi (1.1 km) downstream from information by Corps of Engineers.

REMARKS.--Records computed from power output, flow over spillway, flow through fish ladder, and lockage records at Ice Harbor Dam. Diversions above station for irrigation of over 4,090,000 acres (16,600 km^2). Flow regulated by Lake Sacajawea and many storage reservoirs and powerplants upstream.

COOPERATION.--Records furnished by Corps of Engineers. Records not reviewed but six discharge measurements made by the Geological Survey to verify turbine and spillway ratings.

REVISIONS.--WSP 1317: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33,100	32,000	36,600	43,100	79,200	78,500	120,000	157,000	132,000	142,000	33,200	14,200
2	25,300	33,100	44,300	52,600	84,500	76,700	124,000	161,000	130,000	136,000	31,700	8,900
3	23,500	31,500	44,200	43,400	85,100	77,900	124,000	157,000	140,000	125,000	21,000	27,200
4	31,100	28,100	41,800	48,500	67,700	76,700	111,000	151,000	160,000	116,000	12,900	26,800
5	24,900	30,600	43,700	44,100	70,400	77,000	115,000	147,000	190,000	106,000	29,800	23,600
6	22,600	25,900	43,900	43,700	67,700	80,500	120,000	152,000	218,000	102,000	33,800	26,300
7	20,300	19,500	42,500	39,800	63,800	81,400	112,000	165,000	192,000	95,400	28,500	30,200
8	20,900	20,200	44,500	43,900	63,400	85,000	130,000	176,000	167,000	96,500	25,900	18,000
9	17,600	24,300	44,300	43,200	64,300	76,700	118,000	172,000	144,000	92,600	23,300	22,700
10	26,400	28,900	44,600	47,900	64,400	77,600	143,000	176,000	135,000	93,700	22,400	22,800
11	21,700	33,900	44,300	44,200	64,000	76,000	135,000	163,000	138,000	91,100	21,500	22,900
12	20,700	43,800	42,600	40,700	63,400	74,700	131,000	152,000	156,000	92,700	32,700	23,800
13	16,100	62,700	43,700	36,100	64,100	81,000	126,000	140,000	187,000	78,200	30,600	27,300
14	18,000	63,200	42,400	45,600	49,300	84,400	123,000	130,000	221,000	72,700	33,800	25,700
15	31,400	60,000	44,200	57,300	46,800	84,600	117,000	118,000	262,000	64,600	25,200	23,600
16	23,400	54,200	41,100	124,000	62,100	85,000	122,000	116,000	282,000	66,600	28,300	26,500
17	33,300	45,200	42,700	145,000	60,800	93,300	124,000	100,000	298,000	61,000	22,900	27,400
18	19,300	53,700	53,200	151,000	62,200	106,000	129,000	97,500	301,000	63,500	15,900	27,900
19	20,600	51,100	59,800	123,000	64,600	108,000	130,000	90,400	305,000	58,600	26,500	27,700
20	21,100	39,400	56,100	120,000	64,400	107,000	136,000	87,900	291,000	53,400	22,500	27,800
21	30,800	42,700	56,600	128,000	75,300	109,000	136,000	81,800	272,000	46,100	28,600	28,000
22	33,800	37,700	60,600	108,000	83,300	97,600	130,000	82,100	234,000	55,500	27,100	28,000
23	16,700	40,400	53,700	97,500	77,500	98,900	125,000	81,700	215,000	58,000	28,200	27,600
24	20,100	29,900	60,900	107,000	76,200	95,100	116,000	83,200	212,000	37,100	20,500	28,100
25	11,600	32,300	57,200	103,000	76,300	95,400	132,000	87,500	207,000	43,600	24,600	27,600
26	20,700	38,800	55,300	110,000	75,400	96,800	156,000	100,000	209,000	43,800	33,100	27,800
27	21,300	34,200	54,900	106,000	75,600	95,400	163,000	122,000	195,000	43,500	32,100	28,800
28	23,900	35,900	61,900	104,000	76,700	98,000	162,000	148,000	183,000	31,400	23,300	37,300
29	26,100	35,500	56,300	97,800	------	104,000	155,000	157,000	157,000	41,500	26,600	26,700
30	21,100	39,100	39,900	93,600	------	109,000	151,000	154,000	152,000	43,200	24,400	26,300
31	29,100	------	42,700	75,300	------	110,000	------	142,000	------	42,500	25,500	------
TOTAL	726,500	1,147.8M	1,500.5M	2,467.8M	1,928.5M	2,747.2M	3,916.0M	4,048.1M	6,085.0M	2,293.8M	816,400	767,500
MEAN	23,440	38,260	48,400	79,610	68,880	90,230	130,500	130,600	202,800	73,990	26,340	25,580
MAX	33,800	63,200	61,900	151,000	85,100	110,000	163,000	176,000	305,000	142,000	33,800	37,300
MIN	11,600	19,500	36,600	36,100	46,800	74,700	111,000	81,700	130,000	31,400	12,900	8,900
AC-FT	1,441M	2,277M	2,976M	4,895M	3,825M	5,548M	7,767M	8,029M	12,070M	4,550M	1,619M	1,522M

CAL YR 1973 TOTAL 13,187,000 MEAN 36,130 MAX 88,700 MIN 9,900 AC-FT 26,160,000

WTR YR 1974 TOTAL 28,495,100 MEAN 78,070 MAX 305,000 MIN 8,900 AC-FT 56,520,000

WALLA WALLA RIVER BASIN

14010000 SOUTH FORK WALLA WALLA RIVER NEAR MILTON, OREG.

LOCATION.--Lat 45°49'48", long 118°10'08", in NE¼NE¼ sec.15, T.4 N., R.37 E., Umatilla County, on right bank 1.0 mi (1.6 km) downstream from Elbow Creek, 13 mi (21 km) southeast of Milton, and at mile 59.1 (95.1 km).

DRAINAGE AREA.--63 mi^2 (163 km^2), approximately.

PERIOD OF RECORD.--February to October 1903, August 1906 to November 1917, May 1931 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "12 mi (19 km) above Milton" 1903 and as "above Pacific Power & Light Co.'s intake near Milton" 1907-10.

GAGE.--Water-stage recorder. Altitude of gage is 2,050 ft (625 m) from river-profile map. Prior to Mar. 23, 1934, water-stage recorder or nonrecording gage at several sites within 1.5 mi (2.4 km) of present site at various datums.

AVERAGE DISCHARGE.--53 years (1907-17, 1931-74), 177 ft^3/s (5.01 m^3/s), 38.15 in/yr (969 mm/yr), 128,200 acre-ft/yr (158 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) Jan. 16, gage height, 3.74 ft (1.140 m); minimum daily, 90 ft^3/s (2.55 m^3/s) Jan. 11.

Period of record: Maximum discharge, 2,530 ft^3/s (71.6 m^3/s) Jan. 29, 1965, gage height, 5.60 ft (1.707 m); minimum, 72 ft^3/s (2.04 m^3/s) Feb. 14, 1932.

Maximum stage about 6 ft (2 m) Mar. 31, 1931, present site and datum.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 964: Drainage area. WSP 1398: 1912, 1940, drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	155	408	163	340	185	400	488	425	276	145	130
2	100	133	335	160	290	198	380	416	447	262	153	130
3	100	125	260	145	258	185	336	396	470	248	145	130
4	100	125	190	130	269	182	308	408	525	241	145	130
5	100	125	165	115	262	185	308	470	914	234	143	130
6	103	125	165	115	241	196	332	515	650	227	140	130
7	103	125	350	115	221	191	324	530	530	221	140	128
8	100	138	360	105	209	182	312	530	465	221	140	130
9	100	294	250	100	203	176	320	488	456	224	138	130
10	100	355	220	100	197	173	340	429	470	218	138	130
11	100	436	208	90	200	170	376	380	506	209	138	130
12	100	580	197	100	200	194	412	372	550	200	135	128
13	100	386	194	150	200	215	344	344	595	194	135	128
14	103	268	188	350	194	203	316	336	620	194	135	128
15	103	375	185	900	188	206	320	312	610	191	135	128
16	103	436	204	1.000	221	272	340	293	585	188	135	125
17	103	312	303	733	230	384	340	283	580	185	133	125
18	103	252	335	595	227	308	364	276	565	182	133	125
19	100	216	280	570	237	269	356	265	530	179	133	125
20	103	197	256	425	227	248	320	258	474	176	135	125
21	105	188	294	344	215	241	308	265	429	173	133	125
22	108	179	289	304	200	237	348	290	456	170	133	125
23	113	170	325	300	186	227	400	340	416	165	133	128
24	118	165	307	336	179	224	420	360	384	160	133	128
25	113	165	303	348	176	234	438	408	368	158	133	128
26	108	163	260	328	176	244	434	474	336	155	133	128
27	105	160	236	300	173	304	412	483	308	153	133	128
28	108	182	208	286	176	348	425	474	290	150	130	128
29	115	252	194	279	------	316	404	461	279	150	130	128
30	113	340	182	272	------	404	438	438	276	148	130	128
31	148	------	173	316	------	465	------	420	------	145	130	------
TOTAL	3.278	7.122	7.824	9.574	6.097	7.554	10.875	12.202	14.509	5.997	4.225	3.839
MEAN	106	237	252	309	218	244	363	394	484	193	136	128
MAX	148	580	408	1.000	340	465	438	530	914	276	153	130
MIN	100	125	165	90	173	170	308	258	276	145	130	125
AC-FT	6.500	14.130	15.520	18.990	12.090	14.980	21.570	24.200	28.780	11.900	8.380	7.610

CAL YR 1973 TOTAL 59.544 MEAN 163 MAX 598 MIN 100 AC-FT 118.100
WTR YR 1974 TOTAL 93.096 MEAN 255 MAX 1.000 MIN 90 AC-FT 184.700

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	0100	2.95	760	6- 5	1130	3.68	1,080
1-16	1700	3.74	1,230	6-14	2000	3.05	688

14010800 NORTH FORK WALLA WALLA RIVER NEAR MILTON-FREEWATER, OREG.

LOCATION.--Lat 44°53'06", long 118°11'06", in SE¼NW¼ sec.28, T.5 N., R.37 E., Umatilla County, on right bank 2.8 mi (4.5 km) downstream from Little Meadow Canyon, 8.9 mi (14.3 km) southeast of Milton-Freewater, and at mile 5.6 (9.0 km).

DRAINAGE AREA.--34.4 mi² (89.1 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,940 ft (591 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 59.7 ft³/s (1.690 m³/s), 43,250 acre-ft/yr (53.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 458 ft³/s (13.0 m³/s) Jan. 15, gage height, 5.48 ft (1.670 m); minimum, 4.9 ft³/s (0.14 m³/s) Oct. 17-19.

Period of record: Maximum discharge, 810 ft³/s (22.9 m³/s) Mar. 13, 1972, gage height, 5.96 ft (1.817 m), from rating curve extended above 170 ft³/s (4.81 m³/s) on basis of slope-area measurement at gage height 6.30 ft (1.920 m); maximum gage height, 6.30 ft (1.920 m) Jan. 19, 1971; minimum discharge, 4.9 ft³/s (0.14 m³/s) Sept. 5, 12, 13, Oct. 17-19, 1973.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	23	245	56	154	71	260	289	172	30	12	8.6
2	5.9	17	181	54	121	76	230	250	179	29	13	8.6
3	5.4	16	124	47	100	70	195	222	191	27	12	8.6
4	5.4	16	97	43	115	64	175	226	215	26	12	8.6
5	5.4	17	82	38	113	65	171	250	362	26	11	8.6
6	5.4	17	82	38	92	68	201	281	299	25	11	8.6
7	5.7	19	171	38	80	65	191	312	259	24	11	8.3
8	6.2	28	185	35	69	59	175	328	224	25	10	8.3
9	5.4	127	128	33	62	54	183	286	200	27	10	8.6
10	5.4	140	107	33	60	52	223	231	187	28	10	9.0
11	5.4	181	97	30	64	53	295	193	177	25	10	9.0
12	5.4	243	92	30	66	71	323	179	177	22	9.6	9.0
13	5.4	159	88	42	65	89	228	162	168	20	9.6	8.3
14	5.2	121	79	115	68	82	191	157	155	19	10	8.0
15	5.2	125	76	346	69	81	191	139	150	19	9.6	7.7
16	5.2	171	93	391	80	115	200	121	125	18	9.3	7.7
17	5.2	137	148	343	88	209	204	109	114	18	9.0	7.7
18	5.2	105	169	308	91	195	215	100	100	17	10	7.7
19	4.9	81	133	275	101	154	215	92	91	17	9.3	7.7
20	5.4	68	118	201	94	125	179	92	76	16	9.6	7.7
21	5.7	60	171	154	85	116	173	97	61	16	9.6	7.7
22	6.7	55	161	125	75	110	195	121	76	15	9.6	7.7
23	7.4	50	243	118	62	101	233	179	57	15	9.6	7.7
24	8.6	47	177	173	57	93	254	197	49	14	9.3	7.4
25	9.0	47	171	183	56	96	257	213	43	14	9.3	7.4
26	7.7	46	131	155	56	106	262	269	39	13	9.0	7.4
27	7.0	46	109	134	53	143	254	257	35	13	9.0	7.7
28	6.7	81	94	124	61	187	279	215	33	12	8.6	7.7
29	7.4	140	84	113	------	179	254	197	31	12	8.6	7.7
30	7.4	210	74	102	------	218	259	187	30	12	9.0	7.7
31	13	------	65	133	------	275	------	175	------	12	8.6	------
TOTAL	195.2	2,593	3,975	4,010	2,255	3,432	6,665	6,126	4,075	606	308.2	242.4
MEAN	6.30	86.4	128	129	80.5	111	222	198	136	19.5	9.94	8.08
MAX	13	243	245	391	154	275	323	328	362	30	13	9.0
MIN	4.9	16	65	30	53	52	171	92	30	12	8.6	7.4
AC-FT	387	5,140	7,880	7,950	4,470	6,810	13,220	12,150	8,080	1,200	611	481

CAL YR 1973 TOTAL 14,065.7 MEAN 38.5 MAX 245 MIN 4.9 AC-FT 27,900
WTR YR 1974 TOTAL 34,482.8 MEAN 94.5 MAX 391 MIN 4.9 AC-FT 68,400

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-11	1100	4.94	300	4-11	2030	5.38	424
1-15	1930	5.48	458	5- 8	1930	5.15	367

SPRINGS IN THE WALLA WALLA RIVER BASIN, OREG.-WASH.

Ground-water overflow through many springs on the alluvial fan of the Walla Walla River near Milton-Freewater, Oreg., amounts to about 50,000 acre-feet (61.7 hm³) a year. During the irrigation season practically all the overflow is used to water crops on land not served by diversion from the river. A survey made in 1933 listed 57 springs or spring groups in the area, arranged in "inner", "intermediate", and "outer" zones concentric about the apex of the alluvial fan.1/

The inner zone is 3.0 mi (4.8 km) to 3.5 mi (5.6 km) below Milton-Freewater and extends from the vicinity of Nicholas Spring, which is about 0.5 mi (0.8 km) east of the Walla Walla River at McCoy Bridge, to springs in the vicinity of Dugger Creek. Within this zone are fully three-fourths of the springs in the Walla Walla basin. The intermediate and outer zones, each of which contains only a few springs, are about 2.0 mi (3.2 km) and 4.0 mi (6.4 km), respectively, beyond the inner zone.

In order to bring about a more effective use of the available water supply through a better understanding of the relation between surface- and ground-water supplies in the basin, discharge measurements of each of the principal springs and measurements of ground-water levels in representative wells have been made and the results published periodically since 1932.

Discharge measurements, in cubic feet per second, of springs in Walla Walla River Basin, Oreg.-Wash.
during water year October 1973 to September 1974

Date	Springs	Location	Discharge (ft³/s)
		Springs of the inner zone	
Dec. 13	Engle Spring, Oreg.	NW¼SE¼ sec.23, T.6 N., R.35 E., total flow at	3.26
		Springs of the intermediate and outer zones	
Dec. 13	Lewis Spring, Oreg.	NW¼NW¼ sec.23, T.6 N., R.35 E., below road crossing............	1.91
Dec. 13	Unnamed Spring, Wash.	NW¼NE¼ sec.16, T.6 N., R.35 E., at small diversion structure...	2.22
Dec. 13	East Mud Creek (west prong), Oreg. ..	SW¼SW¼ sec.22, T.6 N., R.35 E., at two weirs..................	1.13

1/ Piper, A.M., Robinson, T.W., and Thomas, H.E., Ground Water in the Walla Walla Basin, Oreg.-Wash: Supreme Court of the United States, October term 1935, State of Washington vs. State of Oregon, transcript of record, p. 132A, Oct. 14, 1935.

14019200 COLUMBIA RIVER AT MCNARY DAM, NEAR UMATILLA, OREG.

LOCATION.--Lat 45°56'05", long 119°17'45", in NE¼ sec.10, T.5 N., R.28 E., Umatilla County, in powerhouse forebay between generator units 2 and 3 at McNary Dam, 2.5 mi (4.0 km) northeast of Umatilla, 3.0 mi (4.8 km) upstream from Umatilla River, and at mile 292.0 (469.8 km).

DRAINAGE AREA.--214,000 mi² (554,300 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected at site at Umatilla since 1876 are contained in reports of U.S. Weather Bureau. Prior to October 1966, published as "below McNary Dam."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1966, at site 1.2 mi (1.9 km) downstream (tailwater) at datum 240.04 ft (73.164 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 186,800 ft³/s (5,290 m³/s), 135,300,000 acre-ft/yr (167 km³/yr).

EXTREMES.--Current year: Maximum daily discharge, 586,000 ft³/s (16,600 m³/s) June 20; maximum forebay elevation, 340.0 ft (103.63 m) Mar. 14, Apr. 1, June 23, 24; minimum daily discharge, 63,800 ft³/s (1,807 m³/s) Oct. 14; minimum forebay elevation, 337.1 ft (102.75 m) Apr. 13, 24.

Period of record: Maximum discharge, 818,000 ft³/s (23,200 m³/s) June 2, 1956, elevation, 277.01 ft (84.433 m), at site 1.2 mi (1.9 km) downstream; maximum daily discharge, 798,000 ft³/s (22,600 m³/s) June 2, 1956; minimum daily discharge, 40,800 ft³/s (1,160 m³/s) Mar. 8, 1970.

Flood of June 5, 1894, reached an elevation of 284.2 ft (86.62 m), and that of May 31, 1948, reached an elevation of about 280 ft (85.3 m), both at site 1.2 mi (1.9 km) downstream from information by Corps of Engineers.

REMARKS.--Records computed from power output and flow over spillway at McNary Dam. Considerable regulation by many reservoirs upstream. Diurnal fluctuation caused by powerplant and gates at McNary Dam since beginning of operation in April 1953. Many diversions for irrigation above station.

COOPERATION.--Daily discharge records furnished by Corps of Engineers. Four discharge measurements made and records reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111,000	102,000	121,000	15[illegible],000	264,000	205,000	243,000	368,000	356,000	486,000	215,000	112,000
2	126,000	110,000	98,100	138,000	276,000	220,000	285,000	381,000	359,000	484,000	202,000	105,000
3	124,000	116,000	105,000	170,000	290,000	213,000	282,000	391,000	367,000	488,000	187,000	134,000
4	117,000	64,600	122,000	186,000	262,000	206,000	261,000	370,000	388,000	467,000	172,000	134,000
5	114,000	122,000	145,000	156,000	259,000	202,000	254,000	376,000	418,000	427,000	200,000	137,000
6	98,600	127,000	132,000	139,000	250,000	221,000	260,000	392,000	440,000	422,000	187,000	135,000
7	75,200	120,000	141,000	157,000	246,000	216,000	269,000	417,000	406,000	384,000	218,000	150,000
8	88,900	111,000	122,000	165,000	241,000	221,000	257,000	424,000	402,000	382,000	209,000	110,000
9	101,000	93,600	130,000	169,000	253,000	196,000	257,000	412,000	375,000	334,000	193,000	130,000
10	124,000	84,500	141,000	178,000	233,000	149,000	273,000	383,000	358,000	325,000	194,000	150,000
11	107,000	81,500	148,000	182,000	218,000	221,000	268,000	357,000	363,000	287,000	187,000	155,000
12	117,000	96,400	135,000	155,000	227,000	194,000	305,000	312,000	390,000	287,000	184,000	140,000
13	79,800	109,000	155,000	107,000	206,000	224,000	287,000	308,000	416,000	253,000	165,000	145,000
14	63,800	120,000	166,000	138,000	216,000	236,000	246,000	298,000	444,000	236,000	160,000	123,000
15	99,900	125,000	120,000	171,000	187,000	232,000	230,000	293,000	487,000	229,000	173,000	91,700
16	125,000	112,000	89,000	242,000	196,000	198,000	295,000	285,000	539,000	221,000	166,000	130,000
17	104,000	103,000	140,000	310,000	192,000	177,000	289,000	301,000	559,000	242,000	150,000	143,000
18	117,000	95,500	156,000	322,000	206,000	228,000	318,000	327,000	552,000	254,000	120,000	144,000
19	100,000	126,000	180,000	329,000	195,000	224,000	305,000	317,000	571,000	245,000	147,000	148,000
20	88,600	115,000	175,000	304,000	213,000	216,000	286,000	308,000	586,000	241,000	163,000	140,000
21	79,100	116,000	187,000	303,000	226,000	216,000	276,000	301,000	571,000	240,000	158,000	135,000
22	98,800	113,000	164,000	304,000	201,000	217,000	271,000	297,000	558,000	229,000	150,000	112,000
23	116,000	94,800	150,000	320,000	248,000	222,000	306,000	296,000	547,000	236,000	140,000	110,000
24	101,000	92,000	163,000	329,000	205,000	181,000	310,000	296,000	565,000	241,000	141,000	152,000
25	99,300	86,000	180,000	320,000	205,000	206,000	290,000	297,000	543,000	228,000	94,900	136,000
26	99,000	124,000	176,000	312,000	220,000	230,000	335,000	306,000	554,000	209,000	124,000	154,000
27	86,700	108,000	188,000	314,000	203,000	219,000	357,000	338,000	549,000	198,000	143,000	154,000
28	68,700	124,000	190,000	311,000	223,000	232,000	348,000	358,000	553,000	196,000	156,000	110,000
29	102,000	121,000	203,000	298,000	-------	254,000	375,000	381,000	508,000	210,000	153,000	107,000
30	115,000	130,000	185,000	292,000	-------	227,000	372,000	381,000	505,000	211,000	146,000	153,000
31	130,000	-------	172,000	262,000	-------	204,000	-------	367,000	-------	200,000	142,000	-------
TOTAL	3,177.4M	3,242.9M	4,679.1M	7,239.0M	6,361.0M	6,607.0M	8,710.0M	10,638M	14,229M	9,092.0M	5,139.9M	3,979.7M
MEAN	102,500	108,100	150,900	233,500	227,200	213,100	290,300	343,200	474,300	293,300	165,800	132,700
MAX	130,000	130,000	203,000	329,000	290,000	254,000	375,000	424,000	586,000	488,000	218,000	155,000
MIN	63,800	64,600	89,000	107,000	187,000	149,000	230,000	285,000	356,000	196,000	94,900	91,700
AC-FT	6,302M	6,432M	9,281M	14,360M	12,620M	13,100M	17,280M	21,100M	28,220M	18,030M	10,190M	7,894M

CAL YR 1973 TOTAL 47,068,000 MEAN 129,000 MAX 203,000 MIN 55,100 AC-FT 93,360,000
WTR YR 1974 TOTAL 83,095,000 MEAN 227,700 MAX 586,000 MIN 63,800 AC-FT 164,800,000

14020000 UMATILLA RIVER ABOVE MEACHAM CREEK, NEAR GIBBON, OREG.

LOCATION.--Lat 45°43'11", long 118°19'20", in SE¼SW¼ sec.21, T.3 N., R.36 E., Umatilla County, Umatilla Indian Reservation, on right bank 0.8 mi (1.3 km) downstream from Ryan Creek, 2.2 mi (3.5 km) upstream from Meacham Creek, 2.5 mi (4.0 km) northeast of Gibbon, and at mile 83.1 (133.7 km).

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--April 1933 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,854.81 ft (565.346 m) above mean sea level. Prior to June 27, 1939, at site 1 mi (2 km) downstream at datum 43.94 ft (13.393 m) lower.

AVERAGE DISCHARGE.--41 years, 226 ft³/s (6.40 m³/s), 23.43 in/yr (595 mm/yr), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,090 ft³/s (59.2 m³/s) May 7, gage height, 5.94 ft (1.811 m); minimum, 47 ft³/s (1.33 m³/s) Sept. 6, 7, 14-17.

Period of record: Maximum discharge, 4,910 ft³/s (139 m³/s) Jan. 29, 1965, gage height, 9.50 ft (2.896 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 16 ft³/s (0.45 m³/s) Nov. 9, 1965.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1935: 1946-48(M), 1950(M), 1953(M), 1956-59(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	91	1.140	250	758	248	944	1.260	703	202	63	50
2	49	78	824	228	550	276	839	1.040	741	184	73	50
3	49	75	542	200	435	259	714	966	803	172	66	50
4	50	74	425	180	565	248	637	990	833	160	65	50
5	49	72	356	160	545	283	675	1.130	1.220	152	63	50
6	51	74	352	160	425	339	763	1.280	1.060	138	62	50
7	52	78	1.330	160	348	310	703	1.350	875	138	66	48
8	51	125	1.210	150	298	266	659	1.400	752	143	60	50
9	51	536	734	140	273	273	686	1.210	703	146	62	50
10	50	656	520	140	276	219	843	931	659	143	59	51
11	51	680	440	145	283	221	964	780	675	132	58	51
12	51	1.100	400	150	280	330	1.060	741	719	118	58	51
13	52	710	365	180	283	390	815	659	719	108	57	50
14	51	640	344	558	276	326	703	620	725	104	57	50
15	50	465	320	1.500	240	325	725	555	719	101	57	50
16	51	680	410	1.900	402	592	809	495	653	97	55	48
17	51	554	958	1.450	450	1.090	791	445	620	95	54	48
18	51	395	1.070	1.150	435	866	887	407	570	90	54	50
19	51	304	758	1.110	470	672	845	371	545	88	54	50
20	52	269	686	825	393	551	719	362	500	84	54	50
21	54	251	1.010	612	335	482	675	389	411	81	52	50
22	56	224	866	494	287	466	851	470	402	77	52	50
23	60	206	995	504	252	417	1.080	626	366	75	52	50
24	60	200	864	769	220	401	1.150	714	322	70	52	50
25	59	203	918	785	214	446	1.260	803	294	68	52	50
26	56	200	656	708	214	496	1.240	970	266	66	51	50
27	55	200	520	590	205	780	1.100	970	238	65	51	50
28	56	320	435	575	217	960	1.190	887	227	65	50	50
29	59	495	380	560	------	769	1.060	803	208	65	50	50
30	57	800	332	500	------	944	1.110	747	208	65	50	50
31	74	------	300	642	------	1.130	------	703	------	65	48	------
TOTAL	1.657	10.555	20.500	17.475	9.969	15.315	26.547	25.072	17.736	3.357	1.752	1.497
MEAN	53.5	352	661	564	356	494	885	809	591	108	56.5	49.9
MAX	74	1.100	1.330	1.900	758	1.130	1.260	1.400	1.220	202	73	51
MIN	48	72	300	140	205	219	637	362	208	65	48	48
AC-FT	3.290	20.940	40.660	34.660	19.770	30.380	52.660	49.730	35.180	6.660	3.480	2.970

CAL YR 1973 TOTAL 67.857 MEAN 186 MAX 1.330 MIN 41 AC-FT 134.600
WTR YR 1974 TOTAL 151.432 MEAN 415 MAX 1.900 MIN 48 AC-FT 300.400

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1800	5.75	1,960	5- 7	2230	5.94	2,090
1-16	1800	5.82	1,970	6- 5	1600	5.28	1,480

14020700 UMATILLA RIVER NEAR CAYUSE, OREG.

LOCATION.—Lat 45°40'57", long 118°31'15", in SE¼NE¼ sec.2, T.2 N., R.34 E., Umatilla County, in Umatilla Indian Reservation, on left bank 13.0 mi (20.9 km) east of Pendleton post office, 1.7 mi (2.7 km) east of Cayuse, and at mile 70.7 (113.8 km).

DRAINAGE AREA.—384 mi^2 (995 km^2).

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,453.36 ft (442.984 m) above mean sea level.

AVERAGE DISCHARGE.—6 years, 591 ft^3/s (16.7 m^3/s), 428,200 acre-ft/yr (528 hm^3/yr).

EXTREMES.—Current year: Maximum discharge, 5,380 ft^3/s (152 m^3/s) Dec. 7, gage height, 7.47 ft (2.277 m); minimum, 44 ft^3/s (1.25 m^3/s) Aug. 30, 31, Sept. 1, 3-18, 16-20.

Period of record: Maximum discharge, 8,830 ft^3/s (250 m^3/s) Jan. 6, 1969, gage height, 8.21 ft (2.502 m); maximum gage height, 8.46 ft (2.579 m) Mar. 13, 1972; minimum discharge, 30 ft^3/s (0.85 m^3/s) July 15, 1973.

REMARKS.—Records good except those for period of no gage-height record, which are fair. No regulation. Small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	112	3.200	620	2.000	655	2.150	3.030	1.100	253	67	46
2	62	103	2.470	544	1.400	732	2.040	2.350	1.160	238	70	46
3	62	97	1.600	498	1.150	718	1.870	2.030	1.280	216	70	45
4	61	96	1.220	442	1.500	669	1.760	2.000	1.300	203	64	45
5	57	101	984	385	1.400	690	1.730	2.180	1.930	195	63	46
6	57	101	903	370	1.100	867	1.910	2.570	1.730	185	60	46
7	59	106	3.300	370	920	824	1.850	2.680	1.350	175	59	45
8	57	148	3.580	350	780	718	1.810	2.800	1.160	175	59	45
9	57	808	1.940	330	720	641	1.920	2.510	1.060	205	58	48
10	55	1.370	1.330	340	720	545	2.230	1.840	995	205	54	49
11	55	1.370	1.040	350	730	571	2.260	1.480	1.000	187	54	51
12	56	2.490	912	360	720	746	2.750	1.390	1.060	168	54	49
13	56	1.630	840	500	720	930	2.150	1.240	1.070	150	54	48
14	55	1.060	739	1.200	710	840	1.790	1.150	1.050	140	54	47
15	55	1.030	676	3.600	720	800	1.880	1.070	1.030	133	54	46
16	53	1.350	940	4.500	1.040	1.310	2.120	951	944	127	52	45
17	53	1.210	2.150	3.400	1.240	2.370	2.000	868	875	120	53	45
18	52	966	2.960	2.900	1.220	2.110	2.250	795	808	116	51	45
19	52	746	1.950	2.800	1.370	1.710	2.150	745	745	112	52	45
20	55	690	1.600	2.100	1.180	1.480	1.810	703	697	105	53	45
21	56	627	2.510	1.500	1.000	1.300	1.600	715	580	98	52	46
22	61	564	2.200	1.250	876	1.260	1.910	795	550	94	51	45
23	63	520	2.600	1.300	739	1.150	2.490	1.010	499	89	51	45
24	64	526	2.200	1.900	641	1.090	2.660	1.160	441	86	49	45
25	63	520	2.180	2.000	585	1.220	2.950	1.260	400	83	49	46
26	59	538	1.590	1.800	592	1.340	2.930	1.580	364	78	48	45
27	58	538	1.260	1.500	557	1.920	2.570	1.640	324	75	47	47
[illegible]	58	948	1.110	1.450	578	2.230	2.730	1.490	300	72	46	47
29	61	1.340	964	1.400	------	1.980	2.440	1.330	271	71	46	47
30	59	1.900	832	1.300	------	2.230	2.590	1.220	259	71	45	46
31	73	------	725	1.700	------	2.470	------	1.140	------	68	45	------
TOTAL	1.803	23.605	52.425	43.151	26.908	38.156	65.300	47.722	26.332	4.293	1.684	1.388
MEAN	58.2	787	1.691	1.392	961	1.231	2.177	1.539	878	138	54.3	46.3
MAX	73	2.490	3.580	4.500	2.000	2.470	2.950	3.030	1.930	253	70	51
MIN	52	96	676	330	557	571	1.600	703	259	68	45	45
AC-FT	3.580	46.820	104.000	85.590	53.370	75.680	129.500	94.660	52.230	8.520	3.340	2.750

CAL YR 1973 TOTAL 144.249 MEAN 395 MAX 3.580 MIN 36 AC-FT 286.100
WTR YR 1974 TOTAL 332.767 MEAN 912 MAX 4.500 MIN 45 AC-FT 660.000

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	0400	6.35	2,880	3-17	1730	6.77	2,730
12- 1	1630	6.77	3,720	4-12	0130	6.90	2,990
12- 7	1830	7.47	5,380	5- 1	0330	7.07	3,350
12-17	2300	6.75	3,600	6- 5	1830	6.49	2,280
1-16	unknown	7.32	4,990				

14021000 UMATILLA RIVER AT PENDLETON, OREG.

LOCATION.--Lat 45°40'20", long 118°47'30", in NW¼NE¼ sec.10, T.2 N., R.32 E., Umatilla County, on wingwall 0.3 mi (0.5 km) downstream from Main Street bridge at Pendleton, 1.5 mi (2.4 km) downstream from Wildhorse Creek, 2.8 mi (4.5 km) upstream from McKay Creek, and at mile 55.2 (88.8 km).

DRAINAGE AREA.--637 mi^2 (1,650 km^2).

PERIOD OF RECORD.--February 1891 to July 1892, May 1903 to June 1905 (gage heights and discharge measurements only June to December 1904), October 1934 to current year. Monthly discharge only February 1891 to July 1892, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (320 m), from topographic map. Apr. 24 to Aug. 26, 1959, nonrecording gage and Aug. 27, 1959, to Feb. 4, 1965, water-stage recorder at same site at datum of 1,067.01 ft (325.225 m). Feb. 5 to Nov. 18, 1965, wire-weight gage at Main Street bridge site. Nov. 19, 1965, to Mar. 28, 1967, water-stage recorder at site 0.7 mi (1.1 km) upstream at datum of 1,067.60 ft (325.404 m) and Nov. 19, 1965, to Sept. 30, 1969, at site 0.7 mi (1.1 km) upstream at datum of 1,064.02 ft (324.313 m). See WSP 1738 for history of changes prior to Apr. 24, 1959.

AVERAGE DISCHARGE.--40 years (1934-74), 500 ft^3/s (14.2 m^3/s), 362,200 acre-ft/yr (447 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,890 ft^3/s (138 m^3/s) Dec. 7, gage height, 7.50 ft (2.286 m); minimum, 30 ft^3/s (0.85 m^3/s) Sept. 20.

Period of record: Maximum discharge, 15,500 ft^3/s (439 m^3/s) Jan. 30, 1965, gage height, 9.40 ft (2.865 m), datum then in use; minimum, 10 ft^3/s (0.28 m^3/s) July 13-16, 1940.

Maximum discharge, 17,000 ft^3/s (481 m^3/s) Dec. 14, 1882 (date and discharge from data furnished by Corps of Engineers). Flood of May 30, 31, 1906, reached a stage of 11.0 ft (3.35 m), 1934-58 site and datum, but before channel was improved, discharge, 15,500 ft^3/s (439 m^3/s), estimated by Corps of Engineers.

REMARKS.--Records good. No regulation. Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1398: 1904, 1937.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	113	2,950	650	1,810	765	2,480	3,010	1,120	234	64	39
2	53	124	2,550	600	1,360	810	2,190	2,390	1,140	220	71	40
3	57	113	1,610	540	1,120	795	1,970	1,990	1,290	209	71	43
4	57	113	1,330	480	1,220	750	1,760	1,900	1,310	193	64	42
5	55	113	1,070	420	1,220	750	1,740	2,030	1,600	187	67	42
6	53	113	1,010	420	1,020	900	2,010	2,440	1,740	182	58	41
7	53	117	3,450	400	915	885	1,940	2,570	1,410	171	58	41
8	53	133	3,600	370	840	795	1,760	2,690	1,240	165	57	40
9	53	521	2,080	370	750	707	2,130	2,350	1,140	215	58	43
10	51	1,210	1,520	360	720	629	2,800	1,630	1,050	220	57	44
11	53	1,140	1,240	420	735	642	2,640	1,560	1,050	193	53	44
12	55	2,010	1,160	535	735	707	3,240	1,470	1,040	165	49	51
13	55	1,410	1,070	885	720	1,010	2,440	1,310	1,110	153	51	53
14	53	945	1,020	1,720	735	930	1,950	1,210	1,070	137	53	46
15	53	855	960	2,650	765	885	1,570	1,170	1,050	129	49	48
16	55	1,160	1,040	4,380	1,090	1,280	2,240	1,040	990	125	53	42
17	53	1,070	2,030	3,980	1,280	2,730	2,130	975	900	109	53	39
18	53	885	2,930	3,160	1,290	2,330	2,420	915	840	109	51	43
19	51	720	1,920	3,030	1,450	1,790	2,310	885	780	109	53	43
20	57	555	1,580	2,190	1,240	1,500	1,880	825	750	101	51	41
21	54	603	2,740	1,560	1,050	1,240	1,670	825	616	97	55	39
22	62	579	2,210	1,240	915	1,280	1,920	885	590	89	51	39
23	64	546	2,780	1,110	810	1,170	2,530	1,010	526	80	51	36
24	59	568	2,220	1,360	735	1,040	2,880	1,170	458	83	48	37
25	67	546	2,210	1,560	658	1,210	3,370	1,260	381	80	41	37
26	64	557	1,670	1,540	642	1,360	3,220	1,520	354	78	44	40
27	62	557	1,430	1,360	642	1,920	2,730	1,560	314	74	41	41
28	66	840	1,200	1,330	642	2,370	2,880	1,500	276	74	37	43
29	67	1,360	1,000	1,260	------	2,010	2,600	1,360	241	67	37	43
30	67	1,580	880	1,110	------	2,260	2,530	1,260	248	67	37	43
31	76	------	740	1,410	------	3,030	------	1,160	------	67	38	------
TOTAL	1,794	21,361	55,380	42,460	27,119	40,580	70,410	48,070	26,752	4,182	1,621	1,263
MEAN	57.9	712	1,786	1,370	969	1,309	2,347	1,551	892	135	52.3	42.1
MAX	76	2,010	3,600	4,380	1,810	3,030	3,370	3,010	1,740	234	71	53
MIN	51	113	740	370	642	629	1,670	825	241	67	37	36
AC-FT	3,560	42,370	109,800	84,220	53,790	80,490	139,700	95,350	53,060	8,290	3,220	2,510

CAL YR 1973 TOTAL 142,749 MEAN 391 MAX 3,600 MIN 19 AC-FT 283,100
WTR YR 1974 TOTAL 340,992 MEAN 934 MAX 4,380 MIN 36 AC-FT 676,400

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	1930	6.88	3,710	1-16	0530	7.35	4,600
12- 7	2100	7.50	4,890	4-25	0800	6.87	3,690

14022200 NORTH FORK MCKAY CREEK NEAR PILOT ROCK, OREG.

LOCATION.--Lat 45°30'24", long 118°36'37", in NW¼SW¼ sec.1, T.1 S., R.33 E., Umatilla County, Umatilla Indian Reservation, on left bank 10 mi (16 km) northeast of Pilot Rock and at mile 0.5 (0.8 km).

DRAINAGE AREA.--48.6 mi² (125.9 km²).

PERIOD OF RECORD.--May 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,870 ft (570 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 806 ft³/s (22.8 m³/s) Dec. 7, gage height, 5.12 ft (1.561 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 8.48 ft (2.585 m), flood of Jan. 25, 1975; minimum, 0.67 ft³/s (0.019 m³/s) Sept. 24-26.

Period of record: Maximum discharge, 806 ft³/s (22.8 m³/s) Dec. 7, 1973, gage height, 5.12 ft (1.561 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 8.48 ft (2.585 m), flood of Jan. 25, 1975; minimum, 0.37 ft³/s (0.010 m³/s) June 25, 1973, but may have been less during period of no gage-height record in July 1973.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	4.0	336	82	188	72	165	148	13	2.4	1.2	.86
2	1.9	5.6	237	70	152	76	160	120	12	2.4	1.4	.86
3	1.9	4.7	176	62	123	71	172	103	11	2.4	1.2	.96
4	1.9	5.3	140	56	131	67	170	90	12	2.0	1.1	.96
5	1.9	6.9	112	50	122	68	192	79	21	1.9	1.1	.86
6	1.9	8.6	119	50	104	68	231	70	16	1.9	1.0	.79
7	1.9	11	566	50	93	66	209	63	15	1.6	1.0	.86
8	1.9	34	317	47	83	59	180	56	13	2.7	1.0	.86
9	1.9	138	196	45	77	54	217	49	12	4.4	1.0	.86
10	1.9	109	141	51	73	51	373	51	11	4.9	1.0	.86
11	1.8	95	116	50	78	51	458	47	10	4.7	.94	1.0
12	1.9	153	101	64	67	61	388	48	9.1	4.2	.94	1.0
13	1.8	98	91	78	66	59	252	41	8.4	3.6	.94	.96
14	1.8	71	81	252	78	56	215	45	7.7	3.2	1.0	.86
15	1.6	74	86	352	103	65	190	49	7.1	3.1	1.0	.86
16	1.6	75	117	314	223	108	170	45	6.8	2.7	.94	.79
17	1.5	65	254	246	211	159	154	43	6.2	2.8	.86	.79
18	1.5	58	237	203	192	135	154	44	5.7	2.7	.86	.79
19	1.5	51	172	244	231	116	138	45	5.2	2.6	1.0	.79
20	1.8	53	140	182	174	95	117	43	5.4	2.5	1.1	.73
21	1.9	52	411	143	141	86	107	39	4.9	2.3	1.0	.73
22	2.2	51	274	119	116	82	108	37	5.7	2.0	1.0	.79
23	2.2	52	342	122	95	74	125	34	4.4	1.9	1.0	.79
24	2.2	56	261	165	82	72	140	31	4.0	1.7	1.0	.79
25	2.0	57	231	174	73	81	192	29	3.6	1.6	.94	.79
26	1.9	59	172	157	71	94	180	26	3.2	1.6	.94	.79
27	1.9	71	145	154	65	110	194	22	3.1	1.6	.86	.73
28	2.2	172	141	163	65	114	244	20	2.9	1.4	.86	.79
29	2.2	213	130	159	------	110	203	18	2.7	1.3	.86	.79
30	2.0	259	111	135	------	141	172	16	2.6	1.2	.86	.96
31	2.6	------	98	176	------	159	------	14	------	1.2	.79	------
TOTAL	59.2	2,162.5	6,104	4,275	3,267	2,678	5,988	1,564	244.7	76.5	30.69	24.93
MEAN	1.91	72.1	197	138	117	86.4	200	50.5	8.16	2.47	.99	.83
MAX	2.6	259	566	352	231	159	458	148	21	4.9	1.4	1.0
MIN	1.5	4.0	81	45	64	51	107	14	2.6	1.2	.79	.73
AC-FT	117	4,290	12,110	8,480	6,480	5,310	11,880	3,100	485	152	61	49

WTR YR 1974 TOTAL 26,474.52 MEAN 72.5 MAX 566 MIN .73 AC-FT 52,510

14022500 McKAY CREEK NEAR PILOT ROCK, OREG.

LOCATION.--Lat 45°32'57", long 118°46'24", in NW¼SE¼ sec.23, T.1 N., R.32 E., Umatilla County, on left bank 500 ft (152 m) upstream from county road bridge, 5.5 mi (8.8 km) northeast of Pilot Rock, and at mile 8.2 (13.2 km).

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--May to August 1921, October 1926 to June 1928, December 1928 to July 1929, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,363.60 ft (409.529 m) above mean sea level. See WSP 1318 or 1738 for history of changes prior to Apr. 9, 1941. Apr. 9, 1941, to July 24, 1963, at site 1,000 ft (305 m) downstream at datum 7.92 ft (2.414 m) lower.

AVERAGE DISCHARGE.--46 years (1926-27, 1929-74), 98.6 ft³/s (2.79 m³/s), 71,440 acre-ft/yr (88.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft³/s (50.1 m³/s) Apr. 11, gage height, 4.77 ft (1.454 m); no flow Sept. 16-30.
Period of record: Maximum discharge, 7,400 ft³/s (210 m³/s) Jan. 30, 1965, gage height, 8.40 ft (2.560 m); no flow at times.

REMARKS.--Records good above 10 ft³/s (0.28 m³/s), poor below. No regulation. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1398: 1928-29, 1933, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	4.0	706	140	432	186	385	472	49	6.0	1.6	.20
2	.42	8.1	626	135	362	207	405	373	43	6.0	1.5	.26
3	.54	13	416	130	306	196	371	308	42	5.7	1.2	.32
4	.75	14	321	125	296	189	357	250	45	5.5	1.1	.26
5	.75	17	269	105	275	179	390	226	66	4.6	1.0	.20
6	.96	21	236	100	233	207	487	210	63	4.6	.94	.36
7	.80	26	1,119	100	211	193	470	196	55	4.0	1.0	.28
8	1.2	34	833	100	193	176	432	186	52	3.8	1.0	.16
9	.75	182	517	100	176	163	500	166	48	7.6	1.0	.24
10	.70	174	366	100	163	153	872	157	43	12	.82	.32
11	.75	129	284	110	160	148	1,010	145	38	13	.70	.36
12	.85	308	237	140	156	163	1,240	142	34	10	.76	.36
13	1.4	218	207	200	150	169	880	127	32	8.7	.82	.32
14	1.4	169	176	511	169	160	668	124	26	6.9	.82	.20
15	1.6	131	169	907	207	169	552	130	24	6.6	.88	.06
16	1.9	127	226	968	385	262	488	115	23	6.0	.94	0
17	2.1	118	515	779	432	487	428	108	19	6.0	1.0	0
18	1.8	112	633	682	432	448	439	110	16	5.7	.94	0
19	1.6	100	459	653	548	385	411	113	16	5.7	1.1	0
20	2.7	106	421	529	416	313	320	110	16	5.2	1.2	0
21	3.2	106	986	400	366	275	264	103	15	4.0	1.2	0
22	3.2	104	675	334	308	249	277	90	14	3.5	1.1	0
23	2.7	106	741	313	253	218	330	88	14	3.1	1.1	0
24	2.9	118	580	410	222	189	428	86	12	2.9	.94	0
25	3.2	114	529	448	189	200	622	82	11	2.7	.76	0
26	3.4	116	400	421	182	241	596	80	9.2	2.6	.58	0
27	3.2	122	363	405	169	294	566	72	8.7	2.4	.46	0
28	3.2	270	405	426	166	300	700	66	8.3	2.6	.32	0
29	4.2	442	380	421	------	300	590	61	7.8	2.2	.28	0
30	4.5	517	313	352	------	357	516	55	6.6	2.1	.40	0
31	4.2	------	288	380	------	395	------	54	------	1.7	.28	------
TOTAL	61.26	4,029.1	14,257	10,924	7,555	7,571	15,992	4,597	856.6	163.4	27.74	3.84
MEAN	1.98	134	460	352	270	244	533	148	28.6	5.27	.89	.13
MAX	4.5	517	1,119	968	548	487	1,240	472	66	13	1.6	.36
MIN	.39	4.0	169	100	150	148	264	54	6.6	1.7	.28	0
AC-FT	122	7,990	28,280	21,670	14,990	15,020	31,720	9,120	1,700	324	55	7.6

CAL YR 1973 TOTAL 27,375.16 MEAN 75.0 MAX 1,110 MIN 0 AC-FT 54,300
WTR YR 1974 TOTAL 66,037.94 MEAN 181 MAX 1,240 MIN 0 AC-FT 131,000

PEAK DISCHARGE (BASE, 840 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1100	4.37	1,570	1-15	2230	3.98	1,180
12-21	0530	4.03	1,230	4-11	2100	4.77	1,770

14023000 McKAY RESERVOIR NEAR PENDLETON, OREG.

LOCATION.--Lat 45°36'28", long 118°47'30", in SE¼ sec.34, T.2 N., R.32 E., Umatilla County, on Bureau of Reclamation land, near right end of McKay Dam on McKay Creek, 4.0 mi (6.4 km) south of Pendleton, and at mile 4.9 (7.9 km).

DRAINAGE AREA.--186 mi^2 (482 km^2).

PERIOD OF RECORD.--December 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.16 ft (0.049 m) above mean sea level. Prior to Nov. 6, 1973, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 70,100 acre-ft (86.4 hm^3) Apr. 13, 14, gage height, 1,319.00 ft (402.031 m); minimum observed, 224 acre-ft (0.276 hm^3) Oct. 1-21, gage height, 1,193.2 ft (363.69 m).

Period of record: Maximum contents observed, 73,840 acre-ft (91.0 hm^3) June 9, 1950, gage height, 1,322.0 ft (402.95 m); no usable contents Sept. 7, 1966.

REMARKS.--Reservoir is formed by gravel-fill dam with concrete facing, completed in 1926; storage began in 1927. Usable capacity, 73,830 acre-ft (91.0 hm^3), between gage heights 1,182.0 ft (360.27 m), floor of trashrack structure, and 1,322.0 ft (402.95 m) top of spillway gates. Dead storage, about 6 acre-ft (7,400 m^3), included in records. Water is used for irrigation of land along McKay Creek and Umatilla River.

COOPERATION.--Gage heights Oct. 1 to Nov. 5, Feb. 6-10, and capacity table furnished by Bureau of Reclamation.

REVISIONS.--WSP 1154: Drainage area.

MONTHEND GAGE HEIGHT AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	[a]1,193.2	224	-
Oct. 31	[a]1,194.6	279	+55
Nov. 30	1,233.33	8,370	+8,091
Dec. 31	1,283.50	36,050	+27,680
CAL YR 1973	-	-	+21,150
Jan. 31	1,301.93	51,650	+15,600
Feb. 28	1,310.78	60,710	+9,060
Mar. 31	1,314.63	64,970	+4,260
Apr. 30	1,317.58	68,400	+3,430
May 31	1,316.99	67,690	-710
June 30	1,314.70	65,050	-2,640
July 31	1,297.67	47,710	-17,340
Aug. 31	1,271.45	27,760	-19,950
Sept.30	1,243.48	12,540	-15,220
WTR YR 1974	-	-	+12,316

[a] Gage height at 0900.

14023500 MCKAY CREEK NEAR PENDLETON, OREG.

LOCATION.--Lat 45°36'34", long 118°47'55", in SE¼NW¼ sec.34, T.2 N., R.32 E., Umatilla County, on right bank 35 ft (11 m) upstream from diversion dam, 0.2 mi (0.3 km) downstream from McKay Dam, 4.5 mi (7.2 km) south of Pendleton, and at mile 4.7 (7.6 km).

DRAINAGE AREA.--186 mi^2 (482 km^2).

PERIOD OF RECORD.--November 1918 to May 1919, October 1919 to September 1923, October 1924 to September 1927, November 1927 to September 1943, April 1944 to October 1947 (irrigation seasons only), March 1948 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Concrete control since Mar. 23, 1928. Datum of gage is 1,163.71 ft (354.699 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1318 or 1738 for history of changes prior to Nov. 16, 1948.

AVERAGE DISCHARGE.--37 years, (1932-43, 1948-74), 93.0 ft^3/s (2.63 m^3/s), 67,380 acre-ft/yr (83.1 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 817 ft^3/s (23.1 m^3/s) Apr. 18, 19, gage height, 2.31 ft (0.704 m); no flow Oct. 1 to Jan. 17.
Period of record: Maximum discharge observed, 3,250 ft^3/s (92.0 m^3/s) Feb. 10, 1921, gage height, 4.4 ft (1.34 m), site and datum then in use, from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); no flow at times each year.

REMARKS.--Records good. Flow completely regulated since 1927 by McKay Reservoir (see station 14023000). Many diversions for irrigation above station. Since 1932, records have excluded flow in Elder ditch which, since 1953, has diverted not over 1.5 ft^3/s (0.042 m^3/s) at station for irrigation during season and up to 1 ft^3/s (0.03 m^3/s) seepage from reservoir, for stock water at other times.

REVISIONS (WATER YEARS).--WSP 1154: Drainage area. WSP 1398: 1923.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	355	7.0	298	512	24	228	314	318
2				0	355	7.0	298	512	24	200	330	318
3				0	355	7.0	302	450	23	191	330	290
4				0	355	7.0	302	330	23	235	330	270
5				0	253	8.0	267	270	23	263	326	270
6				0	211	8.0	274	270	23	263	326	267
7				0	110	8.0	294	249	22	263	380	267
8				0	59	8.0	322	207	21	256	380	263
9				0	59	9.5	342	164	21	239	370	239
10				0	59	9.5	390	152	21	214	360	225
11				0	59	9.5	475	152	22	197	350	225
12				0	59	29	596	155	22	155	338	225
13				0	59	64	680	106	22	143	322	221
14				0	59	111	692	75	22	249	302	218
15				0	22	125	722	97	22	318	302	218
16				0	5.0	125	740	108	22	294	302	218
17				0	5.0	140	768	108	22	270	302	214
18				55	6.0	188	810	108	22	270	302	211
19				108	7.0	249	775	108	22	270	302	228
20				108	7.0	310	626	108	22	267	298	249
21				108	7.0	294	572	111	22	267	286	256
22				111	7.0	282	408	111	22	286	270	256
23				111	7.0	286	310	111	85	338	260	246
24				111	7.0	286	310	111	230	365	252	235
25				140	7.0	286	338	111	250	365	249	232
26				191	7.0	286	365	111	249	360	267	221
27				194	7.0	286	365	108	221	360	282	207
28				228	7.0	294	365	87	218	355	286	207
29				310	------	294	415	71	253	350	310	204
30				306	------	294	485	53	253	342	318	200
31		------		306	------	298	------	33	------	326	318	------
TOTAL	0	0	0	2,387	2,515.0	4,615.5	13,906	5,259	2,248	8,499	9,664	7,218
MEAN	0	0	0	77.0	89.8	149	464	170	74.9	274	312	241
MAX	0	0	0	310	355	310	810	512	253	365	380	318
MIN	0	0	0	0	5.0	7.0	267	33	21	143	249	200
AC-FT	0	0	0	4,730	4,990	9,150	27,580	10,430	4,460	16,860	19,170	14,320

CAL YR 1973 TOTAL 15,466.50 MEAN 42.4 MAX 290 MIN 0 AC-FT 30,680
WTR YR 1974 TOTAL 56,311.50 MEAN 154 MAX 810 MIN 0 AC-FT 111,700

14025000 BIRCH CREEK AT RIETH, OREG.

LOCATION.--Lat 45°39'10", long 118°52'45", in SE¼ sec.13, T.2 N., R.31 E., Umatilla County, on right bank 600 ft (183 m) downstream from road bridge, 0.3 mi (0.5 km) southwest of Rieth, and at mile 0.2 (0.3 km).

DRAINAGE AREA.--291 mi^2 (754 km^2).

PERIOD OF RECORD.--May to August 1921, March to July 1922, April to September 1923, April to September 1927, January to June 1928, November 1928 to August 1929, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 951.04 ft (289.877 m) above mean sea level. See WSP 1738 for history of changes prior to July 24, 1957.

AVERAGE DISCHARGE.--45 years (1929-74), 48.4 ft^3/s (1.37 m^3/s), 35,070 acre-ft/yr (43.2 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Jan. 17, gage height, 4.16 ft (1.268 m); no flow Oct. 1-30.
Period of record: Maximum discharge, 2,200 ft^3/s (62.3 m^3/s) Jan. 30, 1965, gage height, 6.40 ft (1.951 m); no flow at times.

REMARKS.--Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair. No regulation. Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 984: 1939. WSP 1398: 1929, 1932-33, 1938-39, 1940(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.5	166	117	152	88	255	396	60	.30	.30	.10
2	0	1.8	190	87	150	91	223	343	53	.20	.50	.10
3	0	1.0	162	79	136	87	196	300	48	.20	.40	.10
4	0	1.2	140	67	129	87	174	263	47	.80	.30	.10
5	0	1.8	121	60	123	84	166	253	60	.70	.40	.20
6	0	2.0	111	56	111	85	156	253	63	.20	.50	.20
7	0	1.8	191	54	106	81	154	240	54	.30	.70	.20
8	0	2.0	285	53	103	84	154	220	44	.30	.50	.10
9	0	2.3	220	53	97	82	170	200	37	1.2	.80	.20
10	0	29	182	50	94	78	196	180	28	1.2	.50	.20
11	0	40	156	52	93	74	230	156	23	1.5	.30	.20
12	0	127	138	70	90	78	295	138	20	1.5	.20	.20
13	0	136	124	100	90	78	260	127	12	1.5	.30	.20
14	0	115	120	170	90	77	238	115	8.0	1.5	.30	.20
15	0	99	108	258	88	79	235	106	3.5	1.0	.30	.20
16	0	93	121	595	90	103	265	97	1.2	.80	.30	.10
17	0	100	182	855	94	200	263	94	.40	.80	.20	.10
18	0	97	220	624	100	238	295	99	.20	1.0	.30	.10
19	0	87	210	700	118	213	313	99	.70	1.2	.20	.20
20	0	82	192	501	115	184	270	108	1.0	2.0	.80	.20
21	0	77	240	372	111	148	240	115	1.0	1.8	.30	.20
22	0	67	235	280	105	144	248	118	1.0	1.0	.20	.20
23	0	65	210	230	97	132	305	124	.70	1.5	.20	.10
24	0	65	186	213	93	120	384	121	.50	1.2	.10	.10
25	0	63	168	204	87	120	631	120	.30	1.0	.10	.10
26	0	60	152	192	85	129	582	115	1.0	1.5	.10	.10
27	0	56	144	178	85	156	474	114	.30	1.2	.10	.10
28	0	60	172	166	82	194	405	100	.20	.80	.20	.10
29	0	99	166	158	------	198	360	88	.20	.30	.20	.10
30	0	114	148	148	------	230	353	75	.30	.20	.20	.10
31	.45	------	134	140	------	268	------	68	------	.20	.10	------
TOTAL	.45	1,746.4	5,294	6,882	2,914	4,010	8,490	4,945	569.50	28.90	9.90	4.40
MEAN	.015	58.2	171	222	104	129	283	160	19.0	.93	.32	.15
MAX	.45	136	285	855	152	268	631	396	63	2.0	.80	.20
MIN	0	1.0	108	50	82	74	154	68	.20	.20	.10	.10
AC-FT	.9	3,460	10,500	13,650	5,780	7,950	16,840	9,810	1,130	57	20	8.7

CAL YR 1973 TOTAL 11,983.05 MEAN 32.8 MAX 285 MIN 0 AC-FT 23,770
WTR YR 1974 TOTAL 34,894.55 MEAN 95.6 MAX 855 MIN 0 AC-FT 69,210

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	2130	2.32	322	4-17	0400	2.28	328
12-17	1400	2.48	366	4-25	0800	3.48	722
1-17	0200	4.16	1,010				

14026000 UMATILLA RIVER AT YOAKUM, OREG.

LOCATION.--Lat 45°40'40", long 119°02'00", in SW¼ sec.2, T.2 N., R.30 E., Umatilla County, at left bank on downstream side of highway bridge, 0.5 mi (0.8 km) northeast of Yoakum, 2.5 mi (4.0 km) downstream from abandoned Furnish Reservoir, 12.0 mi (19.3 km) downstream from Birch Creek, and at mile 37.7 (60.7 km).

DRAINAGE AREA.--1,280 mi^2 (3,320 km^2), approximately.

PERIOD OF RECORD.--May 1903 to current year. Published as "above Furnish Reservoir, near Yoakum" October 1916 to September 1934.

GAGE.--Water-stage recorder. Datum of gage is 768.21 ft (234.150 m) above mean sea level. See WSP 1318 or 1738 for history of changes prior to Oct. 21, 1948.

AVERAGE DISCHARGE.--71 years, 670 ft^3/s (19.0 m^3/s), 485,400 acre-ft/yr (598 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,340 ft^3/s (151 m^3/s) Jan. 16, gage height, 7.08 ft (2.158 m); minimum, 53 ft^3/s (1.50 m^3/s) Oct. 13.

Period of record: Maximum discharge, 20,000 ft^3/s (566 m^3/s) May 30, 1906, gage height, about 15.0 ft (4.57 m), site and datum then in use, from floodmarks, from rating curve extended above 6,600 ft^3/s (187 m^3/s); minimum, 12 ft^3/s (0.34 m^3/s) Aug. 10-12, 1908, Aug. 4, 1910.

REMARKS.--Records good. Slight regulation by Furnish Reservoir 1910-34, capacity, 3,900 acre-ft (4.81 hm^3) prior to filling with silt. Flow regulated to some extent since 1927 by McKay Reservoir (see station 14023000). Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 794: 1906(M). WSP 1398: 1904-6, 1908-9, 1922-23, 1926, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	108	2,970	800	2,680	899	3,400	3,990	794	490	390	375
2	57	128	2,940	700	2,250	1,000	3,090	3,510	787	450	415	365
3	58	120	1,980	650	1,870	984	2,810	2,990	885	425	415	365
4	60	116	1,560	580	1,910	928	2,530	2,760	968	430	410	326
5	60	122	1,280	550	1,920	899	2,440	2,770	1,250	470	410	318
6	57	126	1,140	550	1,590	1,070	2,700	3,090	1,410	470	380	318
7	57	126	2,500	550	1,370	1,090	2,660	3,190	1,090	455	435	318
8	57	136	4,270	500	1,140	976	2,450	3,240	885	445	435	318
9	57	383	2,580	470	1,030	878	2,580	2,990	766	460	430	310
10	55	1,230	1,910	470	984	801	3,700	2,400	698	460	425	286
11	55	1,190	1,550	500	976	766	3,540	1,980	1,030	435	400	286
12	56	2,080	1,380	550	984	836	4,510	1,820	1,070	370	390	294
13	56	1,870	1,320	900	984	1,160	3,880	1,640	1,070	326	370	294
14	55	1,250	1,150	1,800	968	1,150	3,270	1,460	1,060	360	360	294
15	56	1,020	1,060	2,640	1,030	1,110	3,160	1,430	1,030	455	355	294
16	56	1,310	1,120	4,970	1,290	1,520	3,480	1,300	952	430	355	282
17	56	1,320	2,210	4,680	1,600	3,100	3,340	1,200	885	400	360	274
18	56	1,110	3,260	3,480	1,580	3,310	3,640	1,150	843	390	355	274
19	55	892	2,450	3,600	1,930	2,720	3,610	1,060	773	390	355	294
20	58	801	2,030	2,880	1,620	2,400	3,100	1,020	738	385	345	318
21	60	745	3,100	2,280	1,370	2,100	2,650	1,010	656	380	340	326
22	62	692	2,620	1,860	1,230	1,960	2,760	1,060	596	370	330	322
23	64	638	2,930	1,670	1,060	1,860	3,150	1,240	548	415	314	314
24	66	680	2,620	1,960	952	1,740	3,730	1,400	495	445	306	298
25	66	626	2,500	2,170	864	1,810	4,480	1,600	470	450	294	294
26	68	638	2,030	2,260	829	1,950	4,450	1,760	644	445	310	298
27	68	626	1,710	2,040	829	2,450	3,840	1,390	578	445	330	274
28	70	829	1,400	1,970	815	3,130	3,920	1,290	530	440	322	270
29	70	1,440	1,200	2,020	------	2,840	3,640	1,090	542	435	335	270
30	70	1,720	1,050	1,830	------	2,960	3,520	952	520	410	365	270
31	78	------	950	2,060	------	3,940	------	864	------	405	370	------
TOTAL	1,876	24,072	62,770	53,940	37,655	54,337	100,030	58,646	24,563	13,136	11,406	9,139
MEAN	60.5	802	2,025	1,740	1,345	1,753	3,334	1,892	819	424	368	305
MAX	78	2,080	4,270	4,970	2,680	3,940	4,510	3,990	1,410	490	435	375
MIN	55	108	950	470	815	766	2,440	864	470	326	294	270
AC-FT	3,720	47,750	124,500	107,000	74,690	107,800	198,400	116,300	48,720	26,060	22,620	18,130

CAL YR 1973 TOTAL 176,876 MEAN 485 MAX 4,270 MIN 30 AC-FT 350,800
WTR YR 1974 TOTAL 451,570 MEAN 1,237 MAX 4,970 MIN 55 AC-FT 895,700

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	2230	6.18	3,850	3-31	0900	6.18	4,090
12- 8	0030	7.04	5,270	4-12	1350	6.60	4,650
1-16	0800	7.08	5,340	4-25	1130	6.89	5,000

14032000 BUTTER CREEK NEAR PINE CITY, OREG.

LOCATION.--Lat 45°32'40", long 119°18'40", in SW¼ sec.22, T.1 N., R.28 E., Morrow County, on right bank 0.5 mi (0.8 km) downstream from Mattlock Canyon, 6.0 mi (9.7 km) southeast of Pine City, 15 mi (24 km) southwest of Echo, and at mile 8.4 (13.5 km).

DRAINAGE AREA.--291 mi^2 (754 km^2).

PERIOD OF RECORD.--April to June 1928, November 1928 to June 1929, October 1929 to September 1930, January 1931 to September 1932, February to June 1933, October 1933 to September 1941, January to June 1942, October 1942 to current year. Prior to October 1945, monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m) by barometer. Prior to Oct. 1, 1944, at datum 1.1 ft (0.34 m) higher and Oct. 1, 1944, to Sept. 6, 1949, at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--42 years (1929-30, 1931-32, 1933-41, 1942-74), 25.4 ft^3/s (0.72 m^3/s), 18,400 acre-ft/yr (22.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 813 ft^3/s (23.0 m^3/s) Jan. 19, gage height, 5.81 ft (1.771 m); no flow Oct. 1-3.

Period of record: Maximum discharge, 3,800 ft^3/s (108 m^3/s) Feb. 21, 1949, gage height, 12.4 ft (3.78 m), present datum, from floodmark, from rating curve extended above 440 ft^3/s (12.5 m^3/s) on basis of computation of peak flow over dam; no flow at times.

REMARKS.--Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair. No regulation. Several small diversions for irrigation above station. Water is diverted into headwaters of Butter Creek from Fivemile Creek, a tributary of Camas Creek in John Day River basin, for irrigation below station.

REVISIONS (WATER YEARS).--WSP 1218: 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.8	342	80	95	62	140	133	48	6.2	1.3	.35
2	0	2.3	254	70	100	65	127	133	45	5.9	1.4	.35
3	0	1.5	148	60	100	58	114	127	43	6.2	1.4	.40
4	.30	1.6	106	58	96	59	100	119	45	5.9	1.3	.40
5	.30	2.0	80	55	90	58	95	117	51	5.0	1.2	.40
6	.30	2.7	65	52	84	59	98	117	55	5.0	1.0	.40
7	.30	2.9	272	52	79	59	94	124	46	5.3	.94	.40
8	.30	3.0	286	52	72	60	90	125	44	5.6	.94	.35
9	.30	4.8	163	51	68	60	90	122	39	8.0	1.0	.40
10	.30	33	119	50	62	58	91	114	35	10	.86	.40
11	.30	49	97	53	57	58	90	103	32	8.5	.65	.40
12	.40	149	90	64	55	62	97	94	27	8.5	.70	.40
13	.70	125	77	100	54	62	97	88	25	8.0	.78	.45
14	.70	76	68	180	54	65	92	83	22	7.5	.78	.40
15	.70	58	65	300	53	76	92	77	22	5.9	.78	.40
16	.70	75	122	500	60	124	97	68	20	4.6	.65	.40
17	.70	74	166	608	70	153	97	62	18	4.6	.55	.40
18	.70	54	188	479	67	140	104	56	16	4.6	.50	.30
19	.70	44	137	576	74	120	120	57	16	4.3	.45	.35
20	.70	41	115	380	70	94	116	60	15	3.0	.45	.40
21	1.3	38	166	266	65	84	104	64	14	2.5	.50	.40
22	1.3	34	157	204	61	82	101	68	13	2.3	.50	.40
23	1.3	34	137	168	54	77	112	76	11	2.3	.50	.40
24	1.3	32	116	151	54	72	166	82	10	2.3	.50	.40
25	1.3	31	113	136	54	72	217	86	8.5	1.7	.50	.40
26	1.3	31	120	124	55	77	200	86	8.5	1.4	.45	.40
27	1.3	31	130	108	56	90	169	83	8.5	1.4	.45	.45
28	1.3	40	150	101	55	106	155	74	8.0	1.4	.40	.50
29	1.5	137	140	95	------	111	140	66	8.0	1.3	.35	.60
30	1.8	218	120	87	------	133	133	58	7.0	1.3	.40	.65
31	1.6	------	100	84	------	159	------	53	------	1.3	.35	------
TOTAL	23.70	1,426.6	4,409	5.344	1.914	2,615	3.538	2,775	760.5	141.8	22.53	12.35
MEAN	.76	47.6	142	172	68.4	84.4	118	89.5	25.4	4.57	.73	.41
MAX	1.8	218	342	608	100	159	217	133	55	10	1.4	.65
MIN	0	1.5	65	50	53	58	90	53	7.0	1.3	.35	.30
AC-FT	47	2,830	8,750	10,600	3,800	5,190	7,020	5,500	1,510	281	45	24

CAL YR 1973 TOTAL 8,574.45 MEAN 23.5 MAX 342 MIN 0 AC-FT 17,010
WTR YR 1974 TOTAL 22,982.48 MEAN 63.0 MAX 608 MIN 0 AC-FT 45,590

PEAK DISCHARGE (BASE, 200 CFS)

NOTE.--No gage-height record Oct. 4 to Nov. 8.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	1900	4.05	380	1-17	0400	5.76	800
12- 7	1630	4.63	518	1-19	0300	5.81	813
12-17	2200	3.48	266	4-25	1500	3.43	228
12-21	1430	3.21	212				

PRINCIPAL DIVERSIONS FROM UMATILLA RIVER BETWEEN YOAKUM AND UMATILLA GAGING STATIONS, OREG.

The following canals divert water from Umatilla River between Yoakum and Umatilla:

14027000 FURNISH CANAL NEAR ECHO diverts from right bank of Umatilla River in SW¼SW¼ sec.31, T.3 N., R.30 E., for irrigation in vicinity of Stanfield. Records available March 1921 to current year (prior to October 1929 and March 1935 to September 1937 irrigation seasons only). Monthly figures only for irrigation seasons 1921-25, published in WSP 1318.

14029000 UMATILLA PROJECT FEED CANAL NEAR ECHO diverts from right bank of Umatilla River in SW¼ sec.22, T.3 N., R.29 E., and delivers water to Cold Springs Reservoir, capacity, 52,380 acre-ft (64.4 hm^3) of Bureau of Reclamation. Records available October 1920 to current year (incomplete 1928, 1943-44).

14030000 ALLEN CANAL AT ECHO diverts from right bank of Western Land Canal, 0.5 mi (0.8 km) downstream from headgate of that canal in SW¼ sec.16, T.3 N., R.29 E., for irrigation west of Echo. Records available May 1921 to current year (irrigation seasons only in most years). Monthly figures only October to December 1923, published in WSP 1318. Published as Western Land & Irrigation Co.'s canal at Echo 1921-39.

14030500 WESTERN LAND CANAL NEAR ECHO diverts from left bank of Umatilla River in NE¼ sec.21, T.3 N., R.29 E., for irrigation west of Echo and Stanfield. Gage is 1 mi (2 km) downstream from intake. Records available May 1921 to current year (irrigation seasons only in many years). Published as Western Land & Irrigation Co.'s canal at Echo 1921-39.

14031500 MAXWELL CANAL NEAR HERMISTON diverts from right bank of Umatilla River in SW¼ sec.28, T.4 N., R.28 E., for irrigation near Hermiston; at times it receives water from Cold Springs Reservoir. Records available March 1921 to current year (irrigation seasons only in most years). REVISIONS (WATER YEARS).--WSP 1398: 1921.

14032500 WEST DIVISION MAIN CANAL NEAR UMATILLA diverts from left bank of Umatilla River in SW¼ sec.28, T.5 N., R.28 E., for irrigation near Irrigon and Boardman. Records of monthly figures April 1921 to current year (incomplete October 1925 to March 1927). Published as "Main canal, west division Umatilla project" 1921, 1923. REVISIONS (WATER YEARS).--WSP 1398: 1923.

Water diverted by all of these canals is used for irrigation of lands on both sides of Umatilla River near and below Echo, except that diverted by West Division main canal which is applied to land along Columbia River in vicinity of Irrigon.

Several small canals also divert water between Yoakum and Umatilla, but no records for these were obtained.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	FURNISH CANAL	UMATILLA PROJECT FEED CANAL	ALLEN CANAL	WESTERN LAND CANAL	MAXWELL CANAL	WEST DIVISION MAIN CANAL
OCTOBER	0	0	625	2,410	1,460	3,190
NOVEMBER	0	9,150	.2	54	0	674
DECEMBER	0	11,510	0	0	0	0
JANUARY	0	4,990	0	0	0	0
FEBRUARY	0	8,360	0	0	0	0
MARCH	0	12,600	0	0	186	2,230
APRIL	3,650	6,850	422	7,820	2,860	5,220
MAY	7,580	13,180	663	12,330	3,730	9,780
JUNE	8,580	9,470	664	13,510	3,830	10,570
JULY	7,510	0	711	14,110	3,690	9,640
AUGUST	7,000	0	788	11,850	3,660	9,610
SEPTEMBER	5,670	0	562	9,270	3,460	9,490
WTR YR 1974	39,990	76,110	4,440	71,340	22,880	60,410

NOTE.--No gage-height record for months of little or no flow and short periods at other times.

14033500 UMATILLA RIVER NEAR UMATILLA, OREG.

LOCATION.--Lat 45°54'11", long 119°19'33", in SW¼NW¼ sec.21, T.5 N., R.28 E., Umatilla County, on left bank 1.6 mi (2.6 km) downstream from West Division main canal of Umatilla project, 1.2 mi (1.9 km) southeast of Umatilla, and at mile 2.1 (3.4 km).

DRAINAGE AREA.--2,290 mi^2 (5,930 km^2), approximately.

PERIOD OF RECORD.--October 1903 to current year.

GAGE.--Water-stage recorder. Datum of gage is 330.47 ft (100.727 m) above mean sea level. Oct. 21, 1903, to Jan. 25, 1931, nonrecording gage.

AVERAGE DISCHARGE.--47 years (1927-74), 442 ft^3/s (12.5 m^3/s), 320,200 acre-ft/yr (395 hm^3/yr). Years prior to 1927 not included in computation of average discharge owing to increased regulation and diversion since 1927.

EXTREMES.--Current year: Maximum discharge, 6,430 ft^3/s (182 m^3/s) Jan. 17, gage height, 5.98 ft (1.823 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Aug. 27.
Period of record: Maximum discharge, 19,800 ft^3/s (561 m^3/s) Jan. 30, 1965, gage height, 10.75 ft (3.277 m); no flow at times.

REMARKS.--Records good. Some regulation since 1927 by McKay Reservoir (see station 14023000). Many diversions above station for irrigation of lands above and below station; Brownell Canal diverts below station. Diversions since 1908 to Cold Springs Reservoir, an off-channel reservoir, capacity, 52,380 acre-ft (64.6 hm^3).

REVISIONS (WATER YEARS).--WSP 794: Drainage area. WSP 1398: 1909, 1911, 1914, 1928, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	66	2,070	1,010	2,730	799	3,000	3,350	537	7.6	7.1	20
2	5.9	92	2,880	894	2,470	846	2,750	3,170	486	18	6.9	18
3	5.9	66	1,970	870	2,030	846	2,470	2,510	546	5.9	7.1	12
4	5.9	57	1,420	788	1,850	799	2,330	2,170	591	5.2	9.6	15
5	6.2	55	1,090	722	1,990	777	2,130	2,030	722	5.2	107	14
6	6.2	64	894	640	1,660	846	2,270	2,270	1,270	5.4	7.6	19
7	6.2	98	1,210	630	1,370	954	2,350	2,430	918	5.2	7.6	14
8	6.2	110	4,210	620	1,060	870	2,230	2,370	680	14	7.4	21
9	6.2	128	2,820	600	930	777	2,090	2,190	502	29	13	25
10	6.2	670	1,950	660	846	690	2,950	1,670	423	47	22	27
11	6.2	1,000	1,460	650	822	650	3,070	1,240	321	46	34	16
12	6.4	1,510	1,250	800	882	630	3,530	1,010	308	43	20	6.9
13	6.6	1,770	1,130	1,000	894	918	3,400	942	308	18	13	7.4
14	6.6	1,190	990	2,150	858	1,010	2,970	788	277	5.7	5.0	8.0
15	6.9	858	870	3,140	978	918	2,660	733	259	21	3.4	8.0
16	7.1	966	834	4,780	1,080	990	2,910	630	210	38	4.2	7.6
17	6.6	1,060	1,240	5,840	1,670	2,230	2,730	510	165	33	8.4	7.6
18	6.6	954	3,170	4,750	1,670	3,190	2,820	462	117	6.6	4.9	7.6
19	6.4	755	2,640	4,930	1,950	2,390	3,070	430	62	5.7	17	7.4
20	6.9	610	1,990	4,160	1,870	2,110	2,510	395	55	5.4	8.0	7.6
21	6.9	573	2,770	3,170	1,510	1,830	2,030	360	47	5.7	9.2	14
22	6.2	502	3,000	2,310	1,300	1,600	1,910	334	18	8.4	7.4	15
23	54	454	2,840	1,930	1,130	1,490	2,090	395	5.4	5.7	3.1	10
24	57	470	3,020	1,970	1,000	1,350	2,750	573	5.9	6.6	3.0	44
25	54	438	2,600	2,250	882	1,320	3,530	650	7.4	5.7	2.2	50
26	47	423	2,310	2,430	822	1,480	4,070	846	5.7	5.4	2.1	33
27	28	416	1,850	2,210	822	1,730	3,510	1,050	5.9	110	2.0	58
28	29	446	1,690	2,090	766	2,330	3,350	1,000	9.9	89	2.9	54
29	29	990	1,620	2,050	------	2,310	3,270	882	5.7	8.0	2.4	40
30	29	1,290	1,400	1,950	------	2,310	3,220	810	5.2	18	2.5	44
31	33	------	1,180	1,910	------	3,020	------	700	------	12	13	------
TOTAL	500.2	18,081	60,388	63,904	37,842	44,010	83,970	38,900	8,873.1	639.4	363.0	631.1
MEAN	16.1	603	1,948	2,061	1,352	1,420	2,799	1,255	296	20.6	11.7	21.0
MAX	57	1,770	4,210	5,840	2,730	3,190	4,070	3,350	1,270	110	107	58
MIN	5.9	55	834	600	766	630	1,910	334	5.2	5.2	2.0	6.9
AC-FT	992	35,860	119,800	126,800	75,060	87,290	166,600	77,160	17,600	1,270	720	1,250

CAL YR 1973 TOTAL 111,014.7 MEAN 304 MAX 4,210 MIN 2.2 AC-FT 220,200
WTR YR 1974 TOTAL 358,101.8 MEAN 981 MAX 5,840 MIN 2.0 AC-FT 710,300

PEAK DISCHARGE (BASE, 3,100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 2	0830	4.93	3,140	1-17	1130	5.98	6,430
12- 8	0830	5.51	4,780	3-18	0230	4.99	3,420
12-21	1930	5.05	3,450	4-25	1930	5.33	4,390

14034500 WILLOW CREEK AT HEPPNER, OREG.

LOCATION.--Lat 45°21'02", long 119°32'56", in SE¼NW¼ sec.35, T.2 S., R.26 E., Morrow County, on right bank at Heppner, 100 ft (30 m) upstream from Court Street bridge, 800 ft (244 m) southeast of Morrow County courthouse, 0.3 mi (0.5 km) downstream from Balm Fork and at mile 52.2 (84.0 km).

DRAINAGE AREA.--87 mi² (225 km²), approximately.

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,952.73 ft (595.192 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 18.7 ft³/s (0.53 m³/s), 13,550 acre-ft/yr (16.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 448 ft³/s (12.7 m³/s) Jan. 14, gage height, 4.29 ft (1.308 m); no flow part of each day Sept. 2, 3, 15-17, 21, 23, 24, 26.

Period of record: Maximum discharge, 812 ft³/s (23.0 m³/s) May 10, 1957, gage height, 6.15 ft (1.875 m), from rating curve extended above 230 ft³/s (6.51 m³/s); maximum gage height, 6.46 ft (1.969 m) May 25, 1971, backwater from Shobe Canyon; no flow at times.

Maximum discharge, about 36,000 ft³/s (1,020 m³/s) June 14, 1903, result of slope-area measurement (see WSP 96). Discharge for flood of Feb. 22, 1949, was 1,700 ft³/s (48.1 m³/s), result of slope-area measurement.

REMARKS.--Records fair. No regulation. Many diversions for irrigation above station. Part of flow of Ditch Creek (John Day River basin) is diverted to Willow Creek above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.44	152	48	44	32	74	89	29	2.4	.48	.31
2	.27	1.2	125	40	40	32	67	88	27	3.1	.52	.09
3	.11	1.0	88	40	37	28	58	78	26	3.8	.48	.02
4	.09	.93	70	37	38	30	51	70	27	2.9	.40	.05
5	.09	1.2	57	34	35	29	48	65	35	3.6	.31	.04
6	.09	1.2	52	32	28	29	49	69	30	5.0	.35	.05
7	.08	1.8	158	35	28	25	46	78	26	4.4	.35	.27
8	.09	2.9	154	33	29	25	45	78	22	3.3	.35	.27
9	.09	22	101	31	27	26	49	74	21	7.2	.31	.35
10	.09	26	78	35	27	25	52	64	21	6.4	.23	.40
11	.11	32	65	38	28	24	61	54	20	6.4	.27	.08
12	.12	60	53	45	30	27	78	48	17	5.3	.35	.08
13	.12	48	45	100	31	25	76	40	17	4.6	.23	.07
14	.12	35	38	443	32	27	71	40	16	3.1	.19	.05
15	.11	29	42	430	32	28	62	37	16	2.1	.15	.05
16	.11	29	48	334	35	42	61	30	14	1.4	.12	.04
17	.11	27	86	206	37	79	58	28	13	1.2	.14	.05
18	.11	25	99	178	41	76	67	27	14	1.3	.15	.07
19	.11	23	82	184	53	67	72	28	13	1.2	.23	.40
20	.11	22	71	154	51	56	69	38	13	1.4	.48	.07
21	.12	24	90	112	47	50	62	39	11	1.3	.35	.04
22	.15	22	92	87	41	46	60	38	11	1.2	.31	.05
23	.14	22	83	72	37	41	75	39	11	1.0	.23	.07
24	.14	22	76	64	35	37	133	41	9.6	.93	.15	.05
25	.14	22	73	60	33	38	173	40	8.7	.78	.27	.02
26	.14	22	58	55	33	42	157	44	7.8	.78	.27	.02
27	.11	23	61	51	31	47	130	48	6.9	.71	.12	.07
28	.12	45	120	49	31	62	112	46	6.6	.71	.12	.04
29	.11	100	93	48	------	63	96	42	5.0	.56	.12	.07
30	.11	117	75	45	------	74	87	38	3.6	.48	.11	.14
31	.15	------	64	43	------	77	------	34	------	.40	.35	------
TOTAL	3.75	807.67	2,549	3,163	991	1,309	2,299	1,572	498.2	78.95	8.49	3.38
MEAN	.12	26.9	82.2	102	35.4	42.2	76.6	50.7	16.6	2.55	.27	.11
MAX	.27	117	158	443	53	79	173	89	35	7.2	.52	.40
MIN	.08	.44	38	31	27	24	45	27	3.6	.40	.11	.02
AC-FT	7.4	1,600	5,060	6,270	1,970	2,600	4,560	3,120	988	157	17	6.7

CAL YR 1973 TOTAL 4,605.05 MEAN 12.6 MAX 158 MIN .01 AC-FT 9,130
WTR YR 1974 TOTAL 13,283.44 MEAN 36.4 MAX 443 MIN .02 AC-FT 26,350

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 1	1900	3.04	182	1-14	0030	4.29	448
12- 7	1200	3.12	202	4-25	0300	3.09	178

14034800 RHEA CREEK NEAR HEPPNER, OREG.

LOCATION.--Lat 45°15'33", long 119°37'22", in SW¼SE¼ sec.31, T.3 S., R.26 E., Morrow County, on right bank 1.5 mi (2.4 km) downstream from Sanford Canyon, 8 mi (13 km) southwest of Heppner, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--120 mi^2 (311 km^2), approximately.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,250 ft (686 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 18.7 ft^3/s (0.53 m^3/s), 13,550 acre-ft/yr (16.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 769 ft^3/s (21.8 m^3/s) Jan. 18, gage height, 5.73 ft (1.746 m), from rating curve extended above 270 ft^3/s (7.65 m^3/s) on basis of slope-area measurement at gage height 6.72 ft (2.048 m); no flow Sept. 6-8.

Period of record: Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) June 10, 1969, gage height, 7.05 ft (2.149 m), from rating curve extended above 130 ft^3/s (3.68 m^3/s) on basis of slope-area measurement at gage height 6.72 ft (2.048 m); maximum gage height, 7.41 ft (2.259 m) Dec. 22, 1964; no flow at times.

REMARKS.--Records good above 10 ft^3/s (0.28 m^3/s) and fair below. No regulation. Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	5.7	210	45	55	38	61	59	18	1.9	.25	.01
2	.14	5.1	151	40	50	38	58	57	16	1.6	1.0	.10
3	.11	4.6	106	40	47	34	54	54	15	1.4	.81	.55
4	.43	4.4	79	37	46	34	50	49	15	1.4	.29	.05
5	.50	5.0	62	35	43	34	50	45	19	1.5	.10	.02
6	.50	4.4	59	33	36	34	52	43	16	1.8	.07	0
7	.50	5.5	204	36	35	29	47	45	14	1.5	.44	0
8	.43	8.1	146	34	34	28	45	47	13	1.8	.88	0
9	.57	49	102	32	31	31	47	45	12	6.6	.88	.03
10	.50	35	80	35	30	31	48	43	11	5.1	.88	.04
11	.64	74	69	40	29	31	50	39	9.6	5.6	.74	.19
12	.73	145	58	45	28	38	54	38	9.0	4.2	.55	.74
13	.92	89	51	150	29	35	51	34	8.3	3.3	.61	.81
14	.82	66	44	493	29	38	49	32	7.7	2.3	.95	.74
15	.64	62	55	239	29	51	47	31	6.9	1.8	1.1	.67
16	.73	67	65	280	36	81	44	28	6.3	1.9	.95	.95
17	.92	59	99	273	36	88	42	27	5.8	1.9	.81	.74
18	.73	53	96	447	40	78	45	26	5.4	1.9	.81	.55
19	.73	45	78	383	53	68	45	27	5.1	1.8	1.4	.55
20	1.0	42	71	226	51	58	43	31	4.9	1.5	1.2	.61
21	2.2	38	104	147	49	53	41	26	4.2	1.3	1.2	.61
22	4.4	33	96	112	44	49	41	24	4.0	1.2	.88	.55
23	4.2	31	84	96	41	45	54	23	3.8	1.1	.61	.88
24	3.4	30	73	88	38	41	80	23	3.8	.74	.55	.67
25	2.7	28	65	81	36	41	83	23	3.4	.61	.50	.55
26	2.4	26	53	71	36	40	82	23	3.3	.29	.50	.81
27	2.9	28	58	66	33	40	79	24	3.1	.61	.44	1.0
28	4.2	75	80	63	36	47	75	24	2.6	.74	.50	1.2
29	5.5	148	72	60	------	46	66	23	2.1	.81	.25	1.4
30	4.6	188	62	55	------	59	61	21	2.0	.67	.05	1.5
31	4.8	------	57	54	------	61	------	19	------	.25	.02	------
TOTAL	52.95	1,453.8	2,689	3,836	1,080	1,419	1,644	1,053	250.3	59.12	20.22	16.52
MEAN	1.71	48.5	86.7	124	38.6	45.8	54.8	34.0	8.34	1.91	.65	.55
MAX	5.5	188	210	493	55	88	83	59	19	6.6	1.4	1.5
MIN	.11	4.4	44	32	28	28	41	19	2.0	.25	.02	0
AC-FT	105	2,880	5,330	7,610	2,140	2,810	3,260	2,090	496	117	40	33

CAL YR 1973 TOTAL 5,736.13 MEAN 15.7 MAX 210 MIN 0 AC-FT 11,380
WTR YR 1974 TOTAL 13,573.91 MEAN 37.2 MAX 493 MIN 0 AC-FT 26,920

PEAK DISCHARGE (BASE, 230 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-30	1830	3.95	248	1-14	1830	5.62	728
12- 7	1000	3.95	248	1-18	1400	5.73	769

14036000 WILLOW CREEK NEAR ARLINGTON, OREG.

LOCATION.--Lat 45°45'12", long 120°00'35", in NE¼SW¼ sec.12, T.3 N., R.22 E., Gilliam County, on right bank at bridge on discontinued highway, 3.8 mi (6.1 km) downstream from Eightmile Canyon, 10 mi (16 km) east of Arlington, and at mile 3.7 (6.0 km).

DRAINAGE AREA.--850 mi^2 (2,200 km^2), approximately.

PERIOD OF RECORD.--March to July 1906, August 1960 to current year. Records for March to August 1905 at site just upstream from Eightmile Canyon not equivalent owing to diversions and inflow.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 291.26 ft (88.776 m) above mean sea level. Mar. 1 to July 21, 1906, nonrecording gage at site 2.6 mi (4.2 km) upstream at different datum. Aug. 24, 1960, to July 1, 1964, water-stage recorder at site 430 ft (131 m) downstream at same datum.

AVERAGE DISCHARGE.--14 years, 31.7 ft^3/s (0.898 m^3/s), 22,970 acre-ft/yr (28.3 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 16,900 ft^3/s (479 m^3/s) probably occurred Jan. 14, gage height, 11.18 ft (3.408 m), from floodmark, from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement at gage height 11.05 ft (3.368 m); minimum daily, 0.01 ft^3/s (0.0003 m^3/s) Aug. 12.

Period of record: Maximum discharge, 16,900 ft^3/s (479 m^3/s) probably occurred Jan. 14, 1974, gage height, 11.18 ft (3.408 m), from floodmark, from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement at gage height 11.05 ft (3.368 m); no flow at times.

REMARKS.--Records fair. No regulation. Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.51	445	100	131	57	122	153	33	.06	.41	.09
2	3.2	.41	431	110	126	57	97	151	20	.06	.33	.09
3	1.0	.33	290	105	118	56	97	139	12	.04	.33	.09
4	.27	.51	193	96	109	56	97	118	11	.22	.33	.13
5	.27	.51	148	84	109	64	97	114	17	.27	.33	.04
6	.33	.51	120	86	99	53	96	109	19	.27	.27	.06
7	.27	.41	185	88	91	51	97	75	15	.27	.22	.06
8	.51	.51	449	90	75	47	96	70	15	.27	.13	.09
9	.33	.51	386	92	63	46	66	67	24	.33	.13	.13
10	.27	6.8	263	90	61	45	69	64	9.0	.41	.13	.13
11	.22	61	193	88	54	43	73	67	4.0	.51	.04	.13
12	.22	182	165	92	49	41	84	72	4.0	.27	.01	.09
13	.22	287	141	130	49	38	120	70	2.2	.51	.04	.22
14	.17	218	124	4.500	51	41	101	59	1.0	.51	.06	.27
15	.17	139	110	2.500	47	53	92	52	2.0	.41	.06	.27
16	.17	131	116	900	45	82	101	42	5.8	.62	.06	.27
17	.22	137	335	470	43	109	76	38	3.2	4.4	.13	.22
18	.22	114	257	460	47	135	84	36	2.0	.33	.17	.13
19	.51	92	190	1.500	72	124	94	40	3.6	.17	.17	.13
20	1.0	78	162	800	76	105	92	52	5.8	.17	.17	.13
21	.27	69	209	520	82	99	92	42	1.7	.51	.13	.17
22	.27	61	245	350	82	87	92	49	1.7	.62	.13	.17
23	.27	54	204	270	79	79	92	52	1.2	.62	.13	.17
24	.33	54	187	220	76	72	107	52	.41	.33	.13	.17
25	.33	52	180	190	64	63	239	52	.41	.27	.13	.17
26	.41	49	157	170	57	33	245	54	.62	.27	.13	.17
27	.41	45	137	160	52	26	251	57	.51	.74	.13	.17
28	.41	45	160	151	49	23	215	59	.27	.33	.13	.17
29	.41	230	180	151	------	53	180	60	.17	.33	.06	.17
30	.41	466	160	137	------	78	157	52	.06	.33	.06	.17
31	.88	------	120	131	------	112	------	49	------	.41	.06	------
TOTAL	15.67	2.575.01	6.642	14.831	2.056	2.028	3.521	2.166	215.65	14.86	4.74	4.47
MEAN	.51	85.8	214	478	73.4	65.4	117	69.9	7.19	.48	.15	.15
MAX	3.2	466	449	4.500	131	135	251	153	33	4.4	.41	.27
MIN	.17	.33	110	84	43	23	66	36	.06	.04	.01	.04
AC-FT	31	5.110	13.170	29.420	4.080	4.020	6.980	4.300	428	29	9.4	8.9

CAL YR 1973 TOTAL 10.530.02 MEAN 28.8 MAX 466 MIN 0 AC-FT 20.890
WTR YR 1974 TOTAL 34.074.40 MEAN 93.4 MAX 4.500 MIN .01 AC-FT 67.590

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--No gage-height record Dec. 27 to Jan. 28.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-30	1130	5.38	552	12-17	1830	7.46	1,460
12- 8	1130	5.14	459	1-14	unknown	11.18	16,900

14037500 STRAWBERRY CREEK ABOVE SLIDE CREEK, NEAR PRAIRIE CITY, OREG.

LOCATION.--Lat 44°20'30", long 118°39'20", in SE¼NE¼ sec.20, T.14 S., R.34 E., Grant County, on left bank 100 ft (30 m) upstream from Slide Creek, 8.5 mi (13.7 km) south of Prairie City, and at mile 9.0 (14.5 km).

DRAINAGE AREA.--7.00 mi² (18.13 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1944, published as "above South Fork, near Prairie City."

GAGE.--Water-stage recorder and log control. Datum of gage is 4,909.37 ft (1,496.437 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 12.9 ft³/s (0.365 m³/s), 25.03 in/yr (636 mm/yr), 9,350 acre-ft/yr (11.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 274 ft³/s (7.76 m³/s) June 14, gage height, 2.20 ft (0.671 m), from rating curve extended above 190 ft³/s (5.38 m³/s); minimum, 1.9 ft³/s (0.054 m³/s) Oct. 8-10, 17-20, 26, 27.

Period of record: Maximum discharge, 274 ft³/s (7.76 m³/s) June 14, 1974, gage height, 2.20 ft (0.671 m), from rating curve extended above 190 ft³/s (5.38 m³/s); maximum gage height, 3.23 ft (0.985 m) May 24, 1956 (backwater from logs); minimum discharge, 1.0 ft³/s (0.028 m³/s) Mar. 20, 1955.

REMARKS.--Records fair. Flow affected by natural storage in Strawberry Lake. No diversion above station.

REVISIONS (WATER YEARS).--WSP 1488: 1932-33. WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	3.3	11	4.5	4.8	3.8	12	13	100	96	16	6.4
2	2.3	3.3	11	4.3	4.8	3.8	11	15	125	96	16	6.4
3	2.3	3.3	10	4.2	4.5	3.8	9.8	16	165	84	15	6.0
4	2.3	3.3	9.8	4.1	4.5	3.8	9.0	18	189	75	15	6.0
5	2.3	3.5	9.4	4.0	4.5	3.8	8.6	21	199	72	15	5.6
6	2.3	3.5	9.0	4.0	4.8	3.8	8.2	25	129	69	14	5.6
7	2.3	3.3	10	4.0	4.5	3.8	7.4	30	144	63	14	5.2
8	2.1	4.0	10	4.0	4.5	3.8	7.4	37	124	63	13	5.2
9	2.1	4.8	9.8	4.0	4.3	3.8	7.4	38	96	63	13	4.8
10	1.9	8.6	9.4	3.8	4.3	3.8	7.0	37	88	63	12	4.8
11	2.1	15	9.0	3.8	4.3	3.8	7.0	34	100	60	12	4.8
12	2.1	22	8.2	3.5	4.3	3.8	6.7	33	120	52	12	4.8
13	2.1	19	7.4	3.3	4.3	3.5	6.7	31	139	48	12	4.5
14	2.1	16	7.0	3.5	4.0	3.5	6.7	30	209	44	12	4.5
15	2.1	14	7.0	4.3	4.0	3.8	6.4	30	169	40	11	4.5
16	2.1	15	7.0	6.0	4.0	4.3	6.7	29	81	38	10	4.3
17	2.1	14	7.8	7.8	4.0	5.4	7.4	27	159	36	10	4.3
18	2.1	14	8.2	8.2	4.0	6.0	8.6	26	104	33	9.9	4.3
19	1.9	13	8.2	8.2	4.0	6.4	9.0	25	154	32	9.9	4.0
20	2.4	13	8.2	7.8	4.0	6.4	9.4	24	139	30	9.3	4.0
21	2.1	13	7.8	7.8	4.0	6.4	9.0	23	104	29	9.3	4.0
22	2.3	13	7.4	7.0	4.0	6.4	9.4	22	139	27	8.7	4.0
23	2.5	13	7.4	6.7	4.0	6.4	10	22	139	26	8.7	4.0
24	2.3	13	6.7	6.4	4.0	6.4	11	23	134	23	8.3	3.8
25	2.3	13	6.4	6.0	3.8	6.4	11	25	129	21	8.3	3.8
26	2.1	12	6.0	6.0	3.8	6.4	11	33	116	21	7.9	3.8
27	2.1	12	6.0	5.7	3.8	6.7	11	46	116	20	7.5	3.8
28	2.5	11	5.7	5.4	3.8	7.0	9.8	50	104	19	7.5	3.5
29	2.3	11	5.7	5.4	------	7.8	9.8	52	96	18	7.1	3.5
30	2.5	11	5.7	5.1	------	11	10	54	96	18	7.1	3.5
31	3.3	------	5.4	5.1	------	13	------	76	------	17	6.8	------
TOTAL	69.6	317.9	247.6	163.9	117.6	168.8	264.4	965	3,906	1,396	338.3	137.7
MEAN	2.25	10.6	7.99	5.29	4.20	5.45	8.81	31.1	130	45.0	10.9	4.59
MAX	3.3	22	11	8.2	4.8	13	12	76	209	96	16	6.4
MIN	1.9	3.3	5.4	3.3	3.8	3.5	6.4	13	81	17	6.8	3.5
CFSM	.32	1.51	1.14	.76	.60	.78	1.26	4.44	18.6	6.43	1.56	.66
IN.	.37	1.69	1.32	.87	.62	.90	1.41	5.13	20.76	7.42	1.80	.73
AC-FT	138	631	491	325	233	335	524	1,910	7,750	2,770	671	273

CAL YR 1973 TOTAL 3,356.3 MEAN 9.20 MAX 64 MIN 1.9 CFSM 1.31 IN 17.84 AC-FT 6,660
WTR YR 1974 TOTAL 8,092.8 MEAN 22.2 MAX 209 MIN 1.9 CFSM 3.17 IN 43.01 AC-FT 16,050

14038330 JOHN DAY RIVER NEAR JOHN DAY, OREG.

LOCATION.--Lat 44°25'10", long 118°54'10", in SE¼SE¼ sec.19, T.13 S., R.32 E., Grant County, on left bank 800 ft (244 m) downstream from Dog Creek, 2.5 mi (4.0 km) east of John Day, and at mile 251.0 (403.9 km).

DRAINAGE AREA.--386 mi^2 (1,000 km^2).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,130.56 ft (954.195 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 209 ft^3/s (5.92 m^3/s), 151,400 acre-ft/yr (187 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,530 ft^3/s (43.3 m^3/s) Jan. 18, gage height, 6.35 ft (1.935 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 6.

Period of record: Maximum discharge, 5,830 ft^3/s (165 m^3/s) June 9, 1969, gage height, 10.80 ft (3.292 m), from floodmark; minimum, 3.5 ft^3/s (0.099 m^3/s) Aug. 26-28, 1969.

REMARKS.--Records excellent. Some regulation from irrigation ditches upstream. Many diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	128	405	229	393	435	680	510	479	239	63	18
2	70	102	576	155	293	350	600	594	516	236	71	18
3	68	94	410	158	260	274	520	605	610	217	68	16
4	68	94	335	133	263	256	470	605	725	190	65	15
5	70	104	277	126	236	263	440	631	1,040	187	60	14
6	70	174	254	108	193	285	420	725	917	210	72	13
7	68	143	435	105	204	249	380	784	784	236	63	14
8	68	152	684	104	210	229	370	852	680	223	65	20
9	73	181	450	103	207	220	370	871	594	271	62	23
10	74	272	365	105	213	223	360	772	543	274	58	23
11	74	325	325	110	217	239	350	626	537	278	53	21
12	74	558	305	130	220	278	340	548	610	249	48	24
13	73	485	281	180	217	274	330	474	743	213	41	27
14	71	360	259	250	223	282	330	389	840	187	41	32
15	73	310	237	350	233	407	340	354	884	173	39	35
16	71	310	259	500	363	474	350	325	897	163	32	35
17	70	325	277	816	309	610	380	282	884	150	29	35
18	70	277	648	1,000	282	594	454	263	878	145	27	29
19	68	237	420	784	411	532	479	256	827	130	24	30
20	70	217	360	577	309	459	439	243	772	126	25	26
21	74	209	535	459	271	420	402	207	669	119	27	27
22	73	198	558	407	243	402	416	190	594	112	32	29
23	74	195	450	380	223	384	484	173	560	108	31	27
24	78	191	425	371	217	367	532	178	500	104	31	27
25	80	184	410	380	220	380	510	201	416	98	27	24
26	80	191	335	337	239	398	484	289	375	96	26	28
27	76	191	281	313	224	420	454	474	337	91	26	36
28	78	224	360	297	256	449	416	554	297	80	25	40
29	86	510	355	278	------	520	384	543	274	65	25	42
30	78	365	360	260	------	780	398	505	267	62	24	44
31	84	------	295	321	------	770	------	479	------	62	18	------
TOTAL	2,272	7,311	11,926	9,826	7,154	12,223	12,882	14,502	19,049	5,094	1,298	792
MEAN	73.3	244	385	317	256	394	429	468	635	164	41.9	26.4
MAX	86	558	684	1,000	411	780	680	871	1,040	278	72	44
MIN	68	94	237	103	193	220	330	173	267	62	18	13
AC-FT	4,510	14,500	23,660	19,490	14,190	24,240	25,550	28,760	37,780	10,100	2,570	1,570

CAL YR 1973 TOTAL 48,863.8 MEAN 134 MAX 684 MIN 5.9 AC-FT 96,920
WTR YR 1974 TOTAL 104,329.0 MEAN 286 MAX 1,040 MIN 13 AC-FT 206,900

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	2100	5.05	630	1-18	1330	6.35	1,530
12- 7	2330	5.54	928	5- 9	0730	5.51	897
12-18	0300	5.47	882	6- 5	1430	5.89	1,160

14040500 JOHN DAY RIVER AT PICTURE GORGE, NEAR DAYVILLE, OREG.

LOCATION.--Lat 44°31'15", long 119°37'30", in SW¼ sec.17, T.12 S., R.26 E., Grant County, on right bank 0.7 mi (1.1 km) upstream from Rock Creek, 5.5 mi (8.8 km) northwest of Dayville, and at mile 205.1 (330.0 km).

DRAINAGE AREA.--1,680 mi² (4,350 km²), approximately.

PERIOD OF RECORD.--April 1926 to current year. Monthly discharge only April 1926, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 2,229.84 ft (679.655 m) above mean sea level. Prior to Oct. 11, 1926, nonrecording gage and Oct. 11, 1926, to Sept. 30, 1930, water-stage recorder at same site at datum 2.50 ft (0.762 m) higher. Oct. 1, 1930, to Aug. 28, 1970, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--48 years, 468 ft³/s (13.3 m³/s), 339,100 acre-ft/yr (418 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,060 ft³/s (115 m³/s) Mar. 31, gage height, 10.56 ft (3.219 m); minimum, 22 ft³/s (0.623 m³/s) Sept. 26.

Period of record: Maximum discharge, 8,170 ft³/s (231 m³/s) Dec. 22, 1964, gage height, 14.97 ft (4.563 m); minimum, 1.0 ft³/s (0.028 m³/s) for several days in August and September 1930, Aug. 8, 9, 1936, Sept. 9, 1966.

REMARKS.--Records excellent. No regulation. Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1218: 1950. WSP 1348: Drainage area. WSP 1448: 1926, 1928, 1932(M), 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	187	1,200	684	1,100	920	3,110	1,880	1,110	371	57	32
2	40	205	1,240	499	965	1,070	2,900	2,030	1,090	345	54	32
3	42	185	960	510	860	830	2,450	2,030	1,160	333	60	32
4	43	182	815	457	845	770	2,210	2,000	1,290	305	61	30
5	46	215	708	405	795	745	2,020	2,020	1,650	293	68	29
6	47	310	652	360	648	785	1,940	2,160	1,720	298	68	27
7	60	340	1,690	350	648	730	1,770	2,300	1,490	338	69	25
8	66	313	1,870	340	680	676	1,690	2,430	1,340	345	65	24
9	62	398	1,280	340	668	636	1,690	2,470	1,160	401	65	25
10	69	608	1,050	340	660	656	1,670	2,260	1,070	436	58	28
11	77	704	940	350	660	664	1,600	1,930	1,010	468	54	29
12	85	1,440	870	400	670	745	1,580	1,670	1,030	443	54	27
13	87	1,150	810	500	680	825	1,510	1,550	1,130	380	53	28
14	90	840	735	640	670	785	1,470	1,360	1,260	348	51	29
15	96	725	704	900	668	1,130	1,500	1,230	1,290	310	52	26
16	94	708	750	1,500	815	1,910	1,570	1,140	1,300	280	49	26
17	108	712	1,310	2,200	930	2,580	1,650	1,070	1,250	253	47	28
18	107	652	1,520	2,820	835	2,690	1,890	1,050	1,210	233	47	29
19	102	588	1,140	3,020	1,060	2,370	2,100	1,030	1,160	210	45	28
20	111	528	1,060	2,120	955	2,030	1,950	980	1,120	220	42	28
21	124	503	2,400	1,670	845	1,840	1,800	905	1,010	193	39	28
22	132	475	1,790	1,460	765	1,760	1,790	825	895	172	39	29
23	137	457	1,420	1,320	696	1,700	1,950	785	795	159	42	30
24	138	447	1,220	1,240	676	1,630	2,330	765	745	142	41	27
25	148	436	1,220	1,200	688	1,700	2,270	790	648	127	40	25
26	155	440	1,000	1,130	692	1,810	2,060	880	592	118	41	23
27	153	433	955	1,050	720	1,890	1,930	1,100	544	107	38	25
28	150	536	1,110	995	700	1,950	1,810	1,250	478	103	34	27
29	153	1,020	1,030	950	------	2,030	1,670	1,250	433	98	32	27
30	155	1,080	1,020	890	------	3,540	1,650	1,190	398	94	32	26
31	153	------	875	990	------	3,590	------	1,140	------	80	32	------
TOTAL	3,070	16,817	35,344	31,630	21,594	46,987	57,530	45,470	31,378	8,003	1,529	829
MEAN	99.0	561	1,140	1,020	771	1,516	1,918	1,467	1,046	258	49.3	27.6
MAX	155	1,440	2,400	3,020	1,100	3,590	3,110	2,470	1,720	468	69	32
MIN	40	182	652	340	648	636	1,470	765	398	80	32	23
AC-FT	6,090	33,360	70,100	62,740	42,830	93,200	114,100	90,190	62,240	15,870	3,030	1,640

CAL YR 1973 TOTAL 120,452.5 MEAN 330 MAX 2,400 MIN 4.5 AC-FT 238,900
WTR YR 1974 TOTAL 300,181.0 MEAN 822 MAX 3,590 MIN 23 AC-FT 595,400

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1630	7.60	1,630	1-18	2330	10.26	3,690
12- 1	2400	7.31	1,430	3-31	0130	10.56	4,060
12- 7	1900	9.22	2,800	5- 9	1400	8.80	2,520
12-21	0600	9.43	2,970	6- 5	2200	7.90	1,870

14042500 CAMAS CREEK NEAR UKIAH, OREG.

LOCATION.--Lat 45°09'25", long 118°49'10", in SE¼SE¼ sec.3, T.5 S., R.32 E., Umatilla County, on right bank 1.2 mi (1.9 km) upstream from Cable Creek, 5.8 mi (9.3 km) east of Ukiah, and at mile 18.7 (30.1 km).

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--May 1914 to September 1917, November 1919 to July 1920, November 1920 to June 1924, March 1932 to June 1940 (fragmentary), November 1940 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "above Cable Creek, near Ukiah" 1914-17, 1919-24.

GAGE.--Water-stage recorder. Datum of gage is 3,388.61 ft (1,093.808 m) above mean sea level (levels by State Highway Department). May 1, 1914, to June 30, 1924, nonrecording gage and Mar. 1, 1932, to July 2, 1940, water-stage recorder at site 1.2 mi (1.9 km) downstream at different datum.

AVERAGE DISCHARGE.--38 years (1914-17, 1921-23, 1941-74), 96.4 ft³/s (2.73 m³/s), 69,840 acre-ft/yr (86.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft³/s (44.5 m³/s) Jan. 16, gage height, 3.69 ft (1.125 m); maximum gage height, 4.81 ft (1.466 m) Jan. 15 (ice jam); minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Sept. 25.

Period of record: Maximum discharge, 3,840 ft³/s (109 m³/s) Jan. 30, 1965, gage height, 5.21 ft (1.588 m); maximum gage height, 5.24 ft (1.597 m) Feb. 3, 1963 (ice jam); minimum discharge recorded, 1.0 ft³/s (0.028 m³/s) Aug. 9, 1932, June 24 to July 2, 1940.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1448: 1916, 1920, 1922(M), 1924.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	19	313	49	129	111	496	534	161	15	4.6	3.4
2	4.1	14	247	54	115	104	424	502	163	15	4.5	3.3
3	4.1	12	199	56	109	90	366	455	184	13	4.4	3.2
4	4.1	11	166	54	104	90	313	434	196	12	4.4	3.2
5	4.1	13	139	52	94	86	297	449	277	12	4.2	3.3
6	4.4	19	152	47	66	84	317	486	265	12	4.2	3.4
7	5.0	18	475	47	96	73	305	491	199	12	4.2	3.4
8	4.4	22	449	47	90	68	305	507	155	13	4.3	3.2
9	4.4	99	281	48	80	71	361	460	129	17	4.3	3.3
10	4.4	218	212	50	82	69	375	389	118	17	3.9	3.4
11	4.4	439	181	60	81	77	414	289	122	20	3.9	3.6
12	5.6	737	161	70	80	102	429	250	144	14	3.9	3.7
13	5.3	339	142	80	80	94	361	209	147	12	3.9	3.6
14	5.0	216	122	120	75	92	352	193	137	9.9	3.9	3.2
15	4.7	175	125	370	71	161	394	181	129	9.4	3.9	3.1
16	4.4	172	169	1,180	84	352	449	169	113	9.4	3.8	3.0
17	4.4	158	297	851	86	658	470	158	100	8.0	3.7	2.9
18	4.4	142	317	633	84	580	545	155	88	8.0	3.6	2.8
19	4.1	118	240	627	111	491	507	152	73	9.0	4.0	2.7
20	6.4	106	202	404	96	375	414	163	63	7.6	4.3	2.8
21	7.6	98	236	285	92	334	394	163	55	6.7	4.3	2.9
22	9.5	88	212	250	84	326	434	158	49	6.3	4.3	2.9
23	8.5	80	193	243	80	297	534	169	43	6.3	4.3	2.9
24	9.0	77	166	219	75	301	697	184	38	5.6	3.9	2.8
25	9.0	77	166	202	75	352	758	209	33	5.6	3.9	2.6
26	7.2	75	127	178	84	385	646	273	27	5.6	3.7	2.7
27	6.4	75	147	166	78	475	545	309	22	5.2	3.6	2.8
28	7.2	125	134	155	90	557	507	269	20	5.2	3.4	3.0
29	10	206	120	139	------	512	444	229	18	4.9	3.4	3.1
30	8.5	262	106	129	------	658	475	196	17	4.6	3.4	3.2
31	12	------	98	129	------	585	------	175	------	4.6	3.4	------
TOTAL	186.4	4,210	6,294	6,994	2,471	8,610	13,328	8,960	3,285	305.9	123.5	93.4
MEAN	6.01	140	203	226	88.3	278	444	289	110	9.87	3.98	3.11
MAX	12	737	475	1,180	129	658	758	534	277	20	4.6	3.7
MIN	3.8	11	98	47	66	68	297	152	17	4.6	3.4	2.6
AC-FT	370	8,350	12,480	13,870	4,900	17,080	26,440	17,770	6,520	607	245	185

CAL YR 1973 TOTAL 22,339.0 MEAN 61.2 MAX 737 MIN 1.6 AC-FT 44,310
WTR YR 1974 TOTAL 54,861.2 MEAN 150 MAX 1,180 MIN 2.6 AC-FT 108,800

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-11	2400	3.20	1,110	3-17	1900	2.70	723
12- 7	1830	2.62	671	3-30	1900	2.72	737
1-16	2000	3.69	1,570	4-25	0300	2.81	800

NOTE.--No gage-height record Aug. 1 to Sept. 30.

14044000 MIDDLE FORK JOHN DAY RIVER AT RITTER, OREG.

LOCATION.--Lat 44°53'20", long 119°08'25", in SW¼NW¼ sec.8, T.8 S., R.30 E., Grant County, on left bank 0.2 mi (0.3 km) south of Ritter, 0.8 mi (1.3 km) downstream from Twelvemile Creek, and at mile 14.9 (24.0 km).

DRAINAGE AREA.--515 mi² (1,334 km²).

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,544.56 ft (775.582 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 242 ft³/s (6.85 m³/s), 175,300 acre-ft/yr (216 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,310 ft³/s (93.7 m³/s) Jan. 17, gage height, 7.10 ft (2.164 m); maximum gage height, 8.35 ft (2.545 m) Jan. 14, ice jam; minimum, 15 ft³/s (0.425 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 4,730 ft³/s (134 m³/s) Jan. 30, 1965, gage height, 8.39 ft (2.557 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); maximum gage height, 9.13 ft (2.783 m) Feb. 1, 1963, ice jam; minimum discharge, 0.90 ft³/s (0.025 m³/s) Aug. 19, 20, 1966.

REMARKS.--Records excellent. No regulation. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 739: 1931. WSP 1218: 1950. WSP 1448: 1930-32, 1937, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	101	725	180	422	315	1,470	1,170	887	221	55	26
2	28	80	576	150	349	331	1,260	1,280	929	203	54	26
3	27	55	406	165	318	290	1,060	1,260	1,020	187	52	26
4	28	50	325	165	318	278	908	1,240	1,090	167	50	25
5	29	54	273	141	296	275	834	1,290	1,390	156	48	24
6	29	73	261	160	218	287	827	1,450	1,240	156	46	24
7	30	88	708	140	242	247	749	1,540	1,060	165	51	23
8	31	103	642	145	253	247	743	1,680	894	156	45	23
9	29	175	426	140	244	221	834	1,730	827	184	44	24
10	29	309	356	135	242	236	847	1,520	797	213	43	24
11	29	379	315	150	242	242	827	1,250	834	211	41	24
12	31	840	293	210	239	273	965	1,080	936	175	40	21
13	32	537	267	350	234	302	874	951	995	148	38	19
14	31	360	242	540	242	293	827	840	1,030	131	38	18
15	31	281	239	1,090	247	394	887	797	1,060	120	39	18
16	31	299	247	2,150	321	731	965	725	995	110	38	18
17	30	335	342	2,380	345	1,100	1,060	680	980	104	34	17
18	29	275	468	1,550	325	1,230	1,240	632	908	100	33	17
19	29	226	379	1,270	386	1,110	1,270	586	809	95	34	17
20	32	189	349	915	323	929	1,130	561	737	93	38	16
21	41	175	464	703	299	821	1,030	513	627	83	39	16
22	42	162	447	606	275	821	1,080	490	566	78	37	16
23	41	148	434	537	261	790	1,180	509	518	73	35	15
24	44	141	371	500	242	755	1,340	561	455	68	31	16
25	42	143	402	495	247	840	1,430	642	406	66	33	16
26	39	145	278	447	247	853	1,240	821	356	63	33	17
27	36	145	293	414	239	1,030	1,120	1,040	309	61	31	17
28	36	247	418	398	236	1,130	1,030	1,080	281	52	29	17
29	45	349	360	371	------	1,150	936	1,010	255	47	28	18
30	45	477	315	338	------	1,700	973	951	239	57	27	18
31	43	------	281	402	------	1,810	------	901	------	60	26	------
TOTAL	1,048	6,941	11,902	17,337	7,852	21,031	30,936	30,780	23,430	3,803	1,210	596
MEAN	33.8	231	384	559	280	678	1,031	993	781	123	39.0	19.9
MAX	45	840	725	2,380	422	1,810	1,470	1,730	1,390	221	55	26
MIN	27	50	239	135	218	221	743	490	239	47	26	15
AC-FT	2,080	13,770	23,610	34,390	15,570	41,710	61,360	61,050	46,470	7,540	2,400	1,180

CAL YR 1973 TOTAL 57,400.2 MEAN 157 MAX 840 MIN 5.3 AC-FT 113,900
WTR YR 1974 TOTAL 156,866.0 MEAN 430 MAX 2,380 MIN 15 AC-FT 311,100

PEAK DISCHARGE (BASE, 760 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1130	4.90	1,040	3-30	2230	6.01	2,110
12- 1	1830	4.71	901	5- 9	0830	5.68	1,780
12- 7	1800	4.70	894	6- 5	1500	5.41	1,500
1-17	0130	7.10	3,310				

14046000 NORTH FORK JOHN DAY RIVER AT MONUMENT, OREG.

LOCATION.--Lat 44°48'50", long 119°25'50", in SE¼ sec.2, T.9 S., R.27 E., Grant County, on right bank just downstream from entrance to canyon, 0.7 mi (1.1 km) downstream from Cottonwood Creek, 0.8 mi (1.3 km) west of Monument, and at mile 15.3 (24.6 km).

DRAINAGE AREA.--2,520 mi^2 (6,530 km^2), approximately.

PERIOD OF RECORD.--March 1925 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,959.64 ft (597.298 m) above mean sea level. Prior to Nov. 24, 1925, nonrecording gage and Nov. 24, 1925, to Oct. 16, 1928, water-stage recorder at datum 1.10 ft (0.335 m) higher. Oct. 17, 1928, to Sept. 30, 1930, water-stage recorder at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--49 years, 1,224 ft^3/s (34.7 m^3/s), 886,800 acre-ft/yr (1.09 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 18,900 ft^3/s (535 m^3/s) Jan. 17, gage height, 13.24 ft (4.036 m); maximum gage height, 14.12 ft (4.304 m) Jan. 14, ice jam; minimum discharge, 84 ft^3/s (2.38 m^3/s) Sept. 1, 23, 24.

Period of record: Maximum discharge, 33,400 ft^3/s (946 m^3/s) Jan. 30, 1965, gage height, 18.45 ft (5.624 m), from rating curve extended above 17,000 ft^3/s (481 m^3/s); minimum, 6 ft^3/s (0.17 m^3/s) sometime during period Nov. 2-13, 1936 (result of freezeup); minimum daily, 17 ft^3/s (0.48 m^3/s) Dec. 12, 1932.

REMARKS.--Records excellent except those for January, which are fair. Very slight regulation by small reservoirs upstream. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 754: 1932(M). WSP 1448: 1927, 1931(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	270	4,800	1,510	2,410	2,020	5,880	5,690	4,320	1,130	249	86
2	99	486	4,020	1,000	2,260	2,150	5,230	6,160	4,460	1,050	233	93
3	98	297	2,850	950	2,040	1,730	4,490	6,020	4,860	946	222	97
4	97	222	2,260	900	2,010	1,590	3,960	5,960	5,090	870	211	97
5	98	225	1,880	800	1,850	1,570	3,690	6,260	6,500	814	197	97
6	100	253	1,720	950	1,480	1,620	3,710	7,040	6,240	806	187	95
7	102	306	6,480	840	1,350	1,400	3,460	7,530	5,170	806	181	93
8	106	306	5,960	850	1,480	1,290	3,360	8,280	4,280	814	184	95
9	108	806	3,660	830	1,420	1,250	3,570	8,500	3,830	862	172	95
10	104	1,880	2,810	800	1,370	1,250	3,720	7,020	3,590	1,010	166	93
11	100	2,880	2,450	900	1,350	1,350	3,660	5,750	3,680	1,140	160	93
12	100	7,040	2,250	1,100	1,380	1,680	3,900	5,090	4,140	928	155	93
13	110	4,280	2,020	1,700	1,330	1,670	3,620	4,490	4,460	790	150	95
14	114	2,630	1,800	3,000	1,350	1,550	3,530	3,950	4,610	678	147	99
15	110	2,110	1,770	5,000	1,380	1,960	3,720	3,680	4,680	607	144	99
16	110	2,230	2,350	8,000	2,080	3,620	4,140	3,340	4,490	558	144	99
17	108	2,260	4,200	13,600	2,280	5,380	4,460	3,100	4,290	522	142	97
18	106	1,830	4,560	10,500	2,030	5,480	5,220	2,920	4,050	498	134	93
19	100	1,520	3,300	10,300	2,780	4,940	5,570	2,790	3,660	468	129	90
20	106	1,280	2,900	6,280	2,290	4,050	4,930	2,680	3,310	462	131	88
21	118	1,180	5,390	4,590	2,030	3,720	4,580	2,580	2,860	420	139	88
22	150	1,130	4,290	3,950	1,780	3,680	4,770	2,470	2,560	378	139	88
23	163	1,050	3,590	3,460	1,630	3,460	5,330	2,590	2,400	345	131	86
24	166	1,030	2,990	3,170	1,530	3,250	6,720	2,940	2,230	325	126	86
25	178	1,030	3,140	3,060	1,550	3,520	7,330	3,310	2,000	306	118	88
26	163	1,040	2,390	2,730	1,590	3,710	6,480	4,250	1,760	288	116	88
27	150	1,050	2,230	2,510	1,590	4,280	5,640	5,460	1,550	270	111	86
28	137	1,380	2,550	2,370	1,530	4,940	5,170	5,600	1,390	261	104	88
29	142	3,020	2,380	2,290	------	4,880	4,680	5,180	1,270	237	99	90
30	181	3,600	2,100	2,080	------	6,380	4,830	4,760	1,190	241	93	93
31	181	------	1,910	2,320	------	7,040	------	4,460	------	283	90	------
TOTAL	3,806	48,621	97,020	102,340	49,550	96,410	139,350	149,850	108,920	19,113	4,704	2,768
MEAN	123	1,621	3,130	3,301	1,770	3,110	4,645	4,834	3,631	617	152	92.3
MAX	181	7,040	6,480	13,600	2,810	7,040	7,330	8,500	6,500	1,140	249	99
MIN	97	222	1,720	800	1,330	1,250	3,360	2,470	1,190	237	90	86
AC-FT	7,550	96,440	192,400	203,000	98,280	191,200	276,400	297,200	216,000	37,910	9,330	5,490

CAL YR 1973 TOTAL 336,637 MEAN 922 MAX 7,040 MIN 33 AC-FT 667,700
WTR YR 1974 TOTAL 822,452 MEAN 2,253 MAX 13,600 MIN 86 AC-FT 1,631,000

PEAK DISCHARGE (BASE, 5,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	0530	8.85	7,800	1-17	0130	13.24	18,900
12- 7	1730	9.76	10,000	3-31	0130	8.96	8,060
12-17	2000	8.19	6,380	5- 9	0600	9.41	9,140
12-21	1130	8.15	6,300	6- 5	1930	8.76	7,590

14046500 JOHN DAY RIVER AT SERVICE CREEK, OREG.

LOCATION.--Lat 44°47'38", long 120°00'20", in NW¼NE¼ sec.18, T.9 S., R.23 E., Wheeler County, on left bank 0.2 mi (0.3 km) downstream from bridge on State Highway 207, 0.8 mi (1.3 km) downstream from Service Creek, 0.5 mi (0.8 km) southwest of town of Service Creek, and at mile 156.7 (252.1 km).

DRAINAGE AREA.--5,090 mi² (13,200 km²), approximately.

PERIOD OF RECORD.--March 1925 to September 1926, October 1929 to current year. Monthly discharge only March 1925 to September 1926, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,632.42 ft (497.562 m) above mean sea level. See WSP 1738 for history of changes prior to Feb. 24, 1957.

AVERAGE DISCHARGE.--46 years, 1,831 ft³/s (51.9 m³/s), 1,327,000 acre-ft/yr (1.64 km³/yr).

EXTREMES.--Current year: Maximum discharge, 22,400 ft³/s (634 m³/s) Jan. 17, gage height, 13.26 ft (4.042 m), from floodmark; minimum, 89 ft³/s (2.52 m³/s) Sept. 8.

Period of record: Maximum discharge, 40,200 ft³/s (1,140 m³/s) Dec. 23, 1964, gage height, 17.85 ft (5.441 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of slope-area measurement of peak flow; minimum, 6.0 ft³/s (0.17 m³/s) Aug. 23, 24, 1973.

REMARKS.--Records excellent. Very slight regulation by several small reservoirs above station. Many small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	402	6,260	2,670	4,290	2,970	9,840	7,580	5,640	1,580	357	102
2	155	589	6,310	1,820	3,830	3,620	8,940	8,560	5,640	1,480	303	105
3	152	643	4,480	1,610	3,330	3,140	7,640	8,600	5,990	1,370	265	102
4	152	516	3,630	1,400	3,210	2,710	6,740	8,440	6,380	1,240	261	100
5	155	479	3,050	1,130	3,160	2,640	6,180	8,600	7,440	1,160	261	102
6	161	532	2,700	1,010	2,770	2,690	6,020	9,410	8,680	1,100	248	105
7	164	652	6,740	957	2,270	2,640	5,750	10,300	7,200	1,120	231	97
8	174	715	9,790	1,000	2,430	2,320	5,390	11,100	6,130	1,210	227	91
9	190	860	5,880	960	2,470	2,190	5,480	11,600	5,320	1,210	236	93
10	194	1,980	4,460	1,000	2,390	2,110	5,820	10,400	4,890	1,390	215	93
11	194	3,090	3,790	1,100	2,340	2,230	5,630	8,620	4,780	1,590	208	93
12	202	7,800	3,480	1,300	2,340	2,550	5,750	7,380	5,090	1,540	191	93
13	210	6,940	3,120	1,560	2,340	2,870	5,640	6,700	5,550	1,310	191	97
14	218	4,190	2,850	2,390	2,320	2,660	5,320	5,860	5,860	1,120	184	100
15	222	3,180	2,660	9,600	2,370	2,940	5,450	5,410	6,000	991	180	110
16	226	3,100	3,160	15,800	2,710	5,320	5,910	4,920	5,930	889	180	117
17	230	3,310	4,600	19,200	3,750	7,640	6,360	4,620	5,640	813	174	112
18	234	2,880	7,180	13,200	3,340	8,920	7,100	4,310	5,390	760	165	102
19	234	2,490	5,120	16,300	3,920	8,120	8,140	4,190	5,030	697	159	107
20	234	2,110	4,330	10,100	4,060	6,900	7,520	3,950	4,620	646	159	105
21	246	1,920	7,860	7,380	3,380	6,090	6,860	3,810	4,130	637	162	102
22	290	1,810	7,120	6,090	3,090	5,810	6,800	3,550	3,620	581	165	102
23	330	1,710	5,680	5,460	2,790	5,610	7,420	3,500	3,310	532	165	105
24	342	1,650	4,890	5,010	2,630	5,340	9,220	3,750	3,190	491	156	110
25	348	1,590	4,830	4,760	2,530	5,410	10,200	4,150	2,800	455	153	110
26	367	1,620	4,060	4,470	2,590	5,910	9,460	4,890	2,510	426	144	105
27	360	1,620	3,510	4,040	2,710	6,310	9,340	6,360	2,260	400	142	105
28	348	1,780	4,110	3,840	2,560	7,180	7,600	7,140	1,990	376	128	105
29	330	3,660	4,010	3,700	------	7,260	6,900	6,800	1,820	369	120	112
30	336	4,700	3,650	3,430	------	9,460	6,720	6,290	1,680	352	112	117
31	388	------	3,240	3,360	------	11,900	------	5,880	------	335	105	------
TOTAL	7,550	68,518	146,550	155,647	81,920	153,460	210,140	206,670	144,510	28,170	5,947	3,099
MEAN	244	2,284	4,727	5,021	2,926	4,950	7,005	6,667	4,817	909	192	103
MAX	388	7,800	9,790	19,200	4,290	11,900	10,200	11,600	8,680	1,590	357	117
MIN	152	402	2,660	957	2,270	2,110	5,320	3,500	1,680	335	105	91
AC-FT	14,980	135,900	290,700	308,700	162,500	304,400	416,800	409,900	286,600	55,880	11,800	6,150

CAL YR 1973 TOTAL 493,288.2 MEAN 1,351 MAX 9,790 MIN 6.2 AC-FT 978,400
WTR YR 1974 TOTAL 1,212,181.0 MEAN 3,321 MAX 19,200 MIN 91 AC-FT 2,404,000

PEAK DISCHARGE (BASE, 7,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	2130	9.04	9,580	3-18	0930	8.98	9,430
12- 7	2230	10.61	13,800	3-31	0830	10.28	12,800
12-21	1400	9.11	9,740	5- 9	1400	10.00	12,000
1-17	0830	13.26	22,400	6- 6	0230	8.98	9,430

14048000 JOHN DAY RIVER AT MCDONALD FERRY, OREG.

LOCATION.--Lat 45°35'16", long 120°24'30", in NE¼NW¼ sec.11, T.1 N., R.19 E., Sherman County, on left bank at McDonald Ferry, 0.8 mi (1.3 km) downstream from Rock Creek, 10 mi (16 km) east of Klondike, and at mile 20.9 (33.6 km).

DRAINAGE AREA.--7,580 mi² (19,600 km²), approximately.

PERIOD OF RECORD.--December 1904 to current year. Prior to Oct. 1, 1930, published as "at McDonald."

GAGE.--Water-stage recorder. Datum of gage is 392.27 ft (119.564 m) above mean sea level. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--69 years (1905-74), 2,014 ft³/s (57.04 m³/s), 1,459,000 acre-ft/yr (1.80 km³/yr).

EXTREMES.--Current year: Maximum discharge, 24,100 ft³/s (683 m³/s) Jan. 18, gage height, 10.66 ft (3.249 m); minimum, 70 ft³/s (1.98 m³/s) Sept. 26, 28.

Period of record: Maximum discharge, 42,800 ft³/s (1,210 m³/s) Dec. 24, 1964, gage height, 13.59 ft (4.142 m), from floodmark, from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; no flow for part of Sept. 2, 1966, Aug. 15 to Sept. 16, 1973.

Flood of 1894 reached a stage of 12.8 ft (3.90 m), from floodmarks, discharge, 39,100 ft³/s (1,110 m³/s), from rating curve extended above 22,000 ft³/s (623 m³/s).

REMARKS.--Records excellent. No regulation. Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1094: 1894(M), 1932(M). WSP 1448: 1908-9, 1912, 1916, 1920(M), 1922, 1932.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	333	5.880	4.030	4.170	3.130	12.700	7.410	6.280	1.820	349	117
2	206	339	7.390	3.550	4.960	3.340	10.800	8.340	6.010	1.700	324	107
3	182	380	7.180	2.640	4.650	4.070	9.880	9.300	5.990	1.590	318	110
4	169	479	5.120	1.920	4.110	3.730	8.540	9.270	6.360	1.460	330	114
5	161	680	4.180	1.430	3.940	3.240	7.650	9.100	6.840	1.370	282	103
6	161	589	3.550	1.160	3.860	3.130	7.070	9.330	8.180	1.260	249	87
7	153	538	3.490	1.000	3.480	3.130	6.840	10.200	9.100	1.170	239	87
8	153	546	7.810	900	2.930	3.150	6.510	11.000	7.670	1.120	239	78
9	157	690	10.700	850	2.950	2.790	6.130	11.800	6.610	1.180	244	86
10	157	969	6.760	800	3.040	2.640	6.160	12.100	5.750	1.270	234	94
11	161	1.450	5.140	800	2.970	2.570	6.480	10.700	5.280	1.300	219	94
12	174	3.220	4.410	800	2.910	2.660	6.260	9.100	5.140	1.510	229	90
13	182	8.380	4.050	2.700	2.890	2.880	6.380	7.910	5.420	1.700	219	90
14	187	7.390	3.670	4.000	2.910	3.280	6.230	7.250	5.490	1.500	214	87
15	192	4.610	3.410	4.700	2.840	3.210	5.890	6.360	6.230	1.280	200	90
16	192	3.590	3.210	13.600	2.860	3.480	5.990	5.890	6.380	1.120	190	100
17	201	3.370	3.810	19.800	3.130	6.060	6.480	5.420	6.310	1.010	186	94
18	206	3.530	5.260	20.700	4.320	6.700	6.970	5.080	6.010	928	181	97
19	201	3.220	8.110	19.200	4.110	9.620	7.750	4.790	5.750	883	181	97
20	216	2.830	5.930	17.600	4.610	8.700	8.790	4.570	5.370	807	186	100
21	225	2.470	5.880	11.700	4.830	7.620	8.070	4.390	4.990	724	181	100
22	241	2.210	9.400	8.960	4.090	6.740	7.440	4.210	4.520	647	177	103
23	241	2.070	8.560	7.540	3.750	6.410	7.460	3.920	3.960	638	164	97
24	258	1.960	6.670	6.760	3.420	6.210	8.320	3.820	3.630	601	168	84
25	280	1.870	5.850	6.210	3.210	5.940	10.400	4.040	3.380	544	168	81
26	315	1.820	5.500	5.870	3.090	6.010	11.100	4.390	3.110	512	172	76
27	327	1.790	5.010	5.540	3.150	6.560	10.100	5.120	2.820	474	168	76
28	339	1.800	4.460	5.080	3.150	7.050	9.040	6.740	2.530	430	164	73
29	359	2.080	4.990	4.810	------	7.990	8.290	7.540	2.240	409	156	78
30	339	4.090	4.960	4.610	------	8.340	7.570	7.230	2.020	388	147	81
31	339	------	4.520	4.340	------	11.400	------	6.710	------	388	136	------
TOTAL	6.904	69.293	174.860	193.600	100.330	163.780	237.290	223.030	159.770	31.753	6.614	2.769
MEAN	223	2.310	5.641	6.245	3.583	5.283	7.910	7.195	5.326	1.024	213	92.3
MAX	359	8.380	10.700	20.700	4.960	11.400	12.700	12.100	9.100	1.820	349	117
MIN	153	333	3.210	800	2.840	2.570	5.890	3.820	2.020	388	136	3
AC-FT	13.690	137.400	346.800	384.000	199.000	324.900	470.700	442.400	316.900	62.980	13.120	5.490

CAL YR 1973 TOTAL 511.541.10 MEAN 1.401 MAX 10.700 MIN 0 AC-FT 1.015.000
WTR YR 1974 TOTAL 1.369.993.00 MEAN 3.753 MAX 20.700 MIN 73 AC-FT 2.717.000

PEAK DISCHARGE (BASE, 6,900 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-13	1900	7.00	10,000	3-19	0630	7.05	10,000
12- 3	0530	6.36	8,080	4- 1	0300	8.21	13,700
12- 8	2100	8.34	14,900	4-26	1330	7.56	11,600
12-19	0230	6.79	9,370	5-10	0930	7.84	12,500
12-22	1330	7.38	11,300	6- 6	2330	7.01	9,880
1-18	0330	10.66	24,100				

14050000 DESCHUTES RIVER BELOW SNOW CREEK, NEAR LA PINE, OREG.

LOCATION.--Lat 43°48'51", long 121°46'33", in NW¼ sec.28, T.20 S., R.8 E., Deschutes County, in Deschutes National Forest, on left bank at flow line of Crane Prairie Reservoir, 20 ft (6 m) downstream from Snow Creek, 300 ft (91 m) upstream from highway bridge, and 17 mi (27 km) northwest of La Pine.

DRAINAGE AREA.--132 mi^2 (342 km^2), including Sparks, Elk, and Mud Lake basins, which have no surface outflow to Deschutes River; hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only October 1937, published in WSP 1318. Published as "near Lapine" 1937-64.

GAGE.--Water-stage recorder. Altitude of gage is 4,445 ft (1,355 m), from elevation of Crane Prairie Reservoir when slack water extended to gage. Prior to Sept. 10, 1938, nonrecording gage at site 450 ft (137 m) downstream at different datum.

AVERAGE DISCHARGE.--37 years, 153 ft^3/s (4.33 m^3/s), 110,800 acre-ft/yr (137 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 480 ft^3/s (13.6 m^3/s) Aug. 19, gage height, 3.17 ft (0.966 m); minimum, 78 ft^3/s (2.21 m^3/s) Jan. 1.

Period of record: Maximum discharge, 480 ft^3/s (13.6 m^3/s) Aug. 19, 1974, gage hieght, 3.17 ft (0.966 m); maximum gage height, 4.12 ft (1.256 m) Jan. 21, 1943 (ice jam); minimum discharge, 40 ft^3/s (1.13 m^3/s) sometime during period Dec. 22, 1959, to Mar. 2, 1960, result of freezeup; minimum daily, 55 ft^3/s (1.56 m^3/s) for many days April to June 1941.

REMARKS.--Records good. No regulation. Crater Creek Canal diverts water to Tumalo Creek basin from tributaries of Soda Creek. Stream is spring fed and peak discharge may occur several months after the precipitation which caused it.

REVISIONS (WATER YEARS).--WSP 1248: 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	87	85	89	89	85	87	94	160	271	406	448
2	89	85	85	84	87	82	85	94	172	271	409	445
3	89	82	85	84	87	82	82	96	181	271	416	443
4	89	85	85	84	89	82	82	98	193	274	427	443
5	87	94	85	84	87	82	82	101	205	274	434	439
6	87	87	85	84	86	82	82	106	205	277	439	436
7	87	82	92	84	86	80	82	111	214	277	442	433
8	87	87	87	84	86	80	82	111	214	286	445	430
9	87	87	85	84	86	80	82	114	220	295	448	427
10	87	87	85	84	86	80	82	111	226	292	452	424
11	87	89	85	84	85	80	85	114	229	295	457	419
12	87	89	87	84	85	82	82	117	229	300	460	421
13	87	85	85	84	85	80	82	111	232	305	464	418
14	87	87	85	84	85	85	82	114	238	310	466	415
15	85	85	85	88	85	82	82	114	241	315	469	412
16	85	87	85	90	84	80	82	114	244	320	469	409
17	85	82	87	90	84	80	85	111	247	325	470	407
18	85	85	85	90	84	80	85	111	253	330	473	404
19	85	85	85	90	84	80	82	111	253	335	476	400
20	85	85	87	92	84	80	82	111	256	340	474	395
21	85	87	85	92	83	80	85	114	253	345	467	391
22	87	85	85	92	82	80	87	117	256	350	461	388
23	87	85	85	92	82	80	89	119	262	355	454	385
24	87	85	89	89	82	82	89	116	268	360	452	382
25	87	87	85	89	82	82	87	119	268	365	452	379
26	85	85	85	89	82	82	85	127	268	370	451	374
27	85	85	89	89	82	85	85	133	268	375	454	373
28	85	87	89	87	85	87	87	139	268	380	455	370
29	85	89	89	87	------	85	89	142	268	385	452	368
30	85	87	85	89	------	87	92	148	271	391	451	365
31	89	------	85	89	------	85	------	151	------	398	449	------
TOTAL	2,686	2,584	2,666	2,705	2,374	2,539	2,532	3,589	7,062	10,037	13,994	12,243
MEAN	86.6	86.1	86.0	87.3	84.8	81.9	84.4	116	235	324	451	408
MAX	92	94	92	92	89	87	92	151	271	398	476	448
MIN	85	82	85	84	82	80	82	94	160	271	406	365
AC-FT	5,330	5,130	5,290	5,370	4,710	5,040	5,020	7,120	14,010	19,910	27,760	24,280

CAL YR 1973 TOTAL 38,343 MEAN 105 MAX 175 MIN 82 AC-FT 76,050
WTR YR 1974 TOTAL 65,011 MEAN 178 MAX 476 MIN 80 AC-FT 128,900

14050500 CULTUS RIVER ABOVE CULTUS CREEK, NEAR LA PINE, OREG.

LOCATION.--Lat 43°49'06", long 121°47'40", near line between secs.20 and 29, T.20 S., R.8 E., Deschutes County, Deschutes National Forest, on left bank at highway culvert, 2 mi (3 km) upstream from Cultus Creek, and 18 mi (29 km) northwest of La Pine.

DRAINAGE AREA.--16.5 mi^2 (42.7 km^2), hydrologic drainage boundry uncertain owing to ground-water exchange.

PERIOD OF RECORD.--October 1922 to September 1925, October 1937 to current year. Monthly discharge only October 1937, published in WSP 1318. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Water-stage recorder and cement bag control. Altitude of gage is 4,450 ft (1,356 m), by barometer. Oct. 1, 1922, to Sept. 30, 1925, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum.

AVERAGE DISCHARGE.--40 years, 63.3 ft^3/s (1.79 m^3/s), 45,860 acre-ft/yr (56.5 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 110 ft^3/s (3.12 m^3/s) Aug. 6, gage height, 1.03 ft (0.314 m); maximum gage height, 1.09 ft (0.332 m) June 5 (backwater from Crane Prairie Reservoir); minimum discharge, 36 ft^3/s (1.02 m^3/s) Jan. 13.

Period of record: Maximum discharge, 178 ft^3/s (5.04 m^3/s) May 31, 1956, gage height, 1.04 ft (0.317 m); maximum gage height, 1.32 ft (0.402 m) May 16, 1972 (backwater from Crane Prairie Reservoir); minimum discharge, 26 ft^3/s (0.74 m^3/s) May 26-31, Nov. 23 to Dec. 4, 1959.

REMARKS.--Records good. No regulation or diversions above station.

REVISIONS (WATER YEARS).--WSP 1448: 1923-25, 1947.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	42	42	44	44	47	49	56	87	93	105	105
2	44	42	42	42	44	47	47	57	87	93	108	105
3	44	44	42	42	44	46	47	57	87	93	108	103
4	44	44	42	42	44	46	47	59	87	93	108	103
5	44	42	42	40	44	44	47	59	90	96	108	103
6	44	42	42	40	44	44	47	63	94	96	110	103
7	42	44	44	40	44	44	47	67	94	98	108	103
8	42	44	42	39	44	44	47	69	94	98	108	103
9	42	44	42	39	44	44	47	71	93	98	105	103
10	42	42	40	39	46	44	47	71	91	100	105	100
11	42	42	40	39	46	44	47	75	91	98	105	100
12	42	42	42	37	46	44	47	77	91	98	105	100
13	42	44	42	36	46	44	47	79	91	98	105	100
14	42	44	42	39	46	44	49	81	91	96	105	100
15	42	44	42	40	46	44	49	85	91	98	105	100
16	42	44	42	40	46	44	49	85	91	98	105	98
17	44	42	42	40	46	44	49	85	91	98	105	98
18	44	42	42	44	46	44	49	85	93	100	105	98
19	44	42	42	44	46	44	49	85	93	100	105	98
20	44	42	42	44	46	46	50	85	93	100	105	98
21	44	44	42	44	46	46	50	85	93	100	105	98
22	44	42	42	43	46	46	52	85	93	100	105	98
23	46	42	42	43	46	46	54	85	93	103	105	98
24	44	42	42	43	46	46	54	85	93	103	105	98
25	44	42	44	44	46	47	54	85	93	103	105	98
26	44	42	44	44	46	47	54	85	93	100	105	96
27	44	42	44	44	46	47	54	85	93	103	105	96
28	44	42	44	44	46	47	54	85	91	105	105	96
29	44	42	44	44	------	49	54	85	91	105	105	96
30	44	42	44	44	------	47	56	85	91	105	105	96
31	42	------	44	44	------	47	------	85	------	105	105	------
TOTAL	1,344	1,280	1,314	1,291	1,270	1,407	1,493	2,386	2,744	3,076	3,278	2,991
MEAN	43.4	42.7	42.4	41.6	45.4	45.4	49.8	77.0	91.5	99.2	106	99.7
MAX	46	44	44	44	46	49	56	85	94	105	110	105
MIN	42	42	40	36	44	44	47	56	87	93	105	96
AC-FT	2,670	2,540	2,610	2,560	2,520	2,790	2,960	4,730	5,440	6,100	6,500	5,930

CAL YR 1973 TOTAL 19,115 MEAN 52.4 MAX 74 MIN 40 AC-FT 37,910
WTR YR 1974 TOTAL 23,874 MEAN 65.4 MAX 110 MIN 36 AC-FT 47,350

14051000 CULTUS CREEK ABOVE CRANE PRAIRIE RESERVOIR, NEAR LA PINE, OREG.

LOCATION.--Lat 43°49'17", long 121°49'22", in SW¼ sec.19, T.20 S., R.8 E., Deschutes County, on left bank 1,000 ft (305 m) upstream from highway bridge, 1.0 mi (1.6 km) downstream from Cultus Lake, and 19 mi (31 km) northwest of La Pine.

DRAINAGE AREA.--33.2 mi² (86.0 km²), hydrologic drainage boundary uncertain owing to groung-water exchange.

PERIOD OF RECORD.--March to September 1924 (published as "above Crane Prairie, near Lapine"), October 1937 to current year. Monthly discharge only October 1937 to September 1949, published in WSP 1318. Records for October 1923 to February 1924, published in WSP 594, have been found to be unreliable and should not be used. Published as "near Lapine" 1937-64.

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (1,385 m), by barometer. Mar. 1 to Sept. 30, 1924, nonrecording gage at site 100 ft (30 m) upstream at different datum.

AVERAGE DISCHARGE.--37 years (1937-74), 23.1 ft³/s (0.65 m³/s), 16,740 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 222 ft³/s (6.29 m³/s) June 19, gage height, 3.48 ft (1.061 m); minimum, 0.02 ft³/s (0.0006 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 336 ft³/s (9.52 m³/s) Dec. 25, 1964, gage height, 4.15 ft (1.265 m), from floodmark, from rating curve extended above 90 ft³/s (2.55 m³/s); no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some regulation by fish screens at Cultus Lake since 1962. No diversion above station.

REVISIONS (WATER YEARS).--WSP 1568: 1957. WRD Oreg. 1973: 1972. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.20	15	27	52	26	28	23	87	122	33	5.2
2	.04	.10	15	26	49	25	28	24	92	117	32	4.9
3	.04	.10	15	26	46	24	28	25	101	112	31	5.2
4	.04	.10	15	25	44	22	24	26	117	107	29	4.9
5	.02	.10	15	25	42	21	23	28	146	100	28	4.5
6	.04	.08	15	24	41	24	22	29	173	97	26	4.2
7	.04	.08	17	24	40	23	22	32	176	95	24	4.2
8	.04	.25	18	23	37	22	22	37	179	92	22	3.8
9	.04	.40	18	22	34	17	21	41	179	90	20	3.5
10	.04	.25	18	22	30	13	21	46	176	86	19	3.5
11	.06	.30	18	22	28	14	21	49	176	81	17	2.9
12	.06	.40	19	22	26	15	21	52	178	76	16	2.7
13	.06	.30	20	23	25	18	21	57	183	73	15	2.4
14	.06	.25	20	25	24	20	21	59	192	70	14	2.2
15	.08	.30	20	29	24	23	20	61	198	66	14	2.0
16	.08	9.7	20	33	27	21	20	62	202	64	12	2.2
17	.08	8.3	21	43	29	21	20	61	208	61	12	2.0
18	.08	8.8	21	65	32	19	20	60	213	58	11	1.8
19	.08	8.3	20	74	39	18	20	58	218	56	11	1.8
20	.10	8.8	21	75	38	17	19	56	214	54	9.2	1.6
21	.10	9.7	22	75	36	17	19	54	208	51	8.8	1.6
22	.10	10	22	74	37	16	20	53	202	49	8.3	1.4
23	.15	10	22	72	33	16	21	52	195	47	8.3	1.4
24	.15	11	22	69	30	15	22	51	186	45	7.5	1.3
25	.10	11	22	66	27	16	22	52	176	42	7.1	1.3
26	.08	12	23	65	25	17	22	55	166	41	6.7	1.3
27	.08	12	22	62	25	18	22	61	154	40	6.7	.95
28	.08	12	26	58	26	19	22	67	144	38	6.3	.95
29	.08	13	29	55	------	23	22	74	134	37	5.9	.95
30	.08	15	28	52	------	27	23	76	127	35	5.9	.95
31	.15	------	28	51	------	26	------	82	------	34	5.6	------
TOTAL	2.27	162.81	627	1,354	946	613	657	1,563	5,100	2,136	472.3	77.60
MEAN	.073	5.43	20.2	43.7	33.8	19.8	21.9	50.4	170	68.9	15.2	2.59
MAX	.15	15	29	75	52	27	28	82	218	122	33	5.2
MIN	.02	.08	15	22	24	13	19	23	87	34	5.6	.95
AC-FT	4.5	323	1,240	2,690	1,880	1,220	1,300	3,100	10,120	4,240	937	154

CAL YR 1973 TOTAL 4,023.58 MEAN 11.0 MAX 38 MIN 0 AC-FT 7,980
WTR YR 1974 TOTAL 13,710.98 MEAN 37.6 MAX 218 MIN .02 AC-FT 27,200

NOTE.--No gage-height record Mar. 1 to Apr. 16.

14052000 DEER CREEK ABOVE CRANE PRAIRIE RESERVOIR, NEAR LA PINE, OREG.

LOCATION.--Lat 43°48'48", long 121°50'18", in SE¼SW¼ sec.25, T.20 S., R.7 E., Deschutes County, on right bank 150 ft (146 m) downstream from highway bridge, 1.2 mi (1.9 km) downstream from Little Cultus Lake, and 19 mi (31 km) northwest of La Pine.

DRAINAGE AREA.--21.5 mi^2 (55.7 km^2), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--February to September 1924 (published as "above Crane Prairie, near Lapine"), October 1937 to current year. Monthly discharge only October 1937 to September 1949, published in WSP 1318. Records for October 1923 to January 1924, published in WSP 594, have been found to be unreliable and should not be used. Published as "near Lapine" 1937-64.

GAGE.--Water-stage recorder and wooden weir control. Altitude of gage is 4,520 ft (1,378 m), by barometer. Feb. 1 to Sept. 30, 1924, nonrecording gage at site 75 ft (23 m) upstream at various datums. Oct. 1, 1937, to Sept. 30, 1938, water-stage recorder at bridge 150 ft (46 m) upstream at different datum. Oct. 1, 1938, to Aug. 13, 1968, water-stage recorder and wooden weir control at present site and datum 0.60 ft (0.183 m) higher.

AVERAGE DISCHARGE.--37 years (1937-74), 7.68 ft^3/s (0.217 m^3/s), 5,560 acre-ft/yr (6.86 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 89 ft^3/s (2.52 m^3/s) June 6, gage height, 2.72 ft (0.829 m); maximum gage height, 2.91 ft (0.887 m) Jan. 2 (backwater from ice); no flow Sept. 27, 28.

Period of record: Maximum discharge, 200 ft^3/s (5.66 m^3/s), estimated, Dec. 25, 1964; no flow at times.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS.--See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.50	8.0	13	13	6.9	11	20	56	19	1.6	.20
2	.20	.30	7.1	12	12	6.5	11	21	58	17	1.5	.20
3	.20	.30	7.1	11	11	5.9	11	23	62	16	1.4	.20
4	.20	.20	6.5	9.5	11	5.7	9.5	25	68	15	1.4	.20
5	.20	.20	6.1	9.0	11	4.9	9.5	28	79	13	1.3	.20
6	.20	.30	5.9	8.5	11	6.1	9.3	32	88	12	1.2	.20
7	.20	.30	8.5	8.2	10	6.0	9.0	39	83	11	1.1	.10
8	.20	1.3	8.8	7.8	9.0	5.6	8.8	47	79	11	.90	.10
9	.20	1.2	8.3	7.6	8.0	4.6	9.0	52	75	11	.86	.10
10	.20	.78	8.0	7.6	7.0	4.0	8.5	53	71	11	.78	.10
11	.20	1.3	7.8	7.6	6.3	4.2	9.0	51	68	10	.70	.10
12	.20	1.9	8.3	7.8	5.9	4.9	9.3	51	70	9.3	.70	.20
13	.20	1.9	9.8	8.2	5.5	5.9	8.8	47	71	8.5	.60	.20
14	.20	2.5	9.0	9.2	5.7	6.4	8.3	44	72	7.8	.60	.20
15	.20	2.5	8.8	10	5.5	7.6	8.5	41	73	6.7	.50	.20
16	.20	2.2	7.5	12	6.3	7.5	8.5	38	72	5.9	.50	.20
17	.20	1.9	8.3	20	6.7	7.3	8.8	33	71	5.4	.50	.20
18	.20	2.2	7.3	26	7.8	6.7	9.3	30	70	5.1	.40	.10
19	.20	2.1	6.7	30	10	6.1	9.5	27	68	4.6	.40	.10
20	.20	2.4	6.9	31	9.5	5.7	9.8	26	65	4.2	.40	.10
21	.30	4.2	7.3	31	8.8	5.4	10	25	61	3.7	.30	.10
22	.30	4.8	6.9	28	9.0	5.2	11	26	56	3.4	.30	.10
23	.50	4.8	7.3	25	8.0	5.1	13	27	50	3.0	.30	.10
24	.50	5.4	8.0	22	6.9	5.1	14	29	46	2.5	.30	.10
25	.30	5.7	9.8	20	6.1	5.4	15	32	40	2.3	.30	.10
26	.20	5.7	9.8	19	6.1	5.7	15	40	37	2.1	.30	.10
27	.20	5.7	12	17	6.1	6.3	15	49	33	2.1	.30	0
28	.20	5.2	14	15	6.7	8.3	15	56	29	2.0	.30	0
29	.20	6.1	17	13	------	9.0	16	57	26	1.9	.20	.10
30	.20	7.3	16	12	------	11	18	57	23	1.8	.20	.10
31	.60	------	15	13	------	10	------	56	------	1.7	.20	------
TOTAL	7.50	81.18	277.8	471.0	229.9	195.0	328.4	1,182	1,820	230.0	20.34	4.00
MEAN	.24	2.71	8.96	15.2	8.21	6.29	10.9	38.1	60.7	7.42	.66	.13
MAX	.60	7.3	17	31	13	11	18	57	88	19	1.6	.20
MIN	.20	.20	5.9	7.6	5.5	4.0	8.3	20	23	1.7	.20	0
AC-FT	15	161	551	934	456	387	651	2,340	3,610	456	40	7.9

CAL YR 1973 TOTAL 1,257.78 MEAN 3.45 MAX 17 MIN 0 AC-FT 2,490
WTR YR 1974 TOTAL 4,847.12 MEAN 13.3 MAX 88 MIN 0 AC-FT 9,610

14052500 QUINN RIVER NEAR LA PINE, OREG.

LOCATION.--Lat 43°47'03", long 121°50'06", in SW¼NW¼ sec.1, T.21 S., R.7 E., Deschutes County, Deschutes National Forest, on left bank at flow line of Crane Prairie Reservoir, 150 ft (46 m) downstream from springs at head of river, and 18 mi (29 km) northwest of La Pine.

PERIOD OF RECORD.--June 1922 to September 1925, October 1937 to current year. Published as "above Crane Prairie Reservoir near Lapine" 1922-25, and as "near Lapine" 1937-64. Monthly discharge only October 1937, published in WSP 1318.

GAGE.--Water-stage recorder and log control. Datum of gage is 4,442.1 ft (1,353.95 m) above mean sea level, based on elevation of Crane Prairie Reservoir when slack water reached station. June 1, 1922, to Sept. 30, 1925, nonrecording gage at site 150 ft (46 m) downstream at different datum.

AVERAGE DISCHARGE.--40 years, 24.4 ft^3/s (0.69 m^3/s), 17,680 acre-ft/yr (21.8 hm^3/yr).

EXTREMES.--Current year: Maximum daily discharge, 51 ft^3/s (1.44 m^3/s) July 6-10; maximum gage height, 2.83 ft (0.863 m) June 11 (backwater from Crane Prairie Reservoir); minimum discharge, 9.8 ft^3/s (0.28 m^3/s) Oct. 23 to Nov. 11.

Period of record: Maximum discharge, 59 ft^3/s (1.67 m^3/s) July 4, 1949, gage height, 1.97 ft (0.600 m); maximum gage height, 3.92 ft (1.195 m) June 25, 1943 (backwater from Crane Prairie Reservoir); practically no flow Nov. 14, 1941.

REMARKS.--Records good. No regulation or diversion above station. Normal flow is entirely from springs 150 ft (46 m) upstream.

REVISIONS (WATER YEARS).--WSP 1448: 1939, 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.8	12	14	18	20	23	26	38	50	48	42
2	11	9.8	12	14	18	19	23	26	38	50	48	42
3	11	9.8	12	14	19	19	23	27	38	50	48	42
4	11	9.8	13	14	19	19	23	27	38	50	48	42
5	11	11	13	14	19	20	23	27	38	50	48	40
6	11	9.8	13	14	19	20	23	28	42	51	48	40
7	11	9.8	12	14	19	20	23	29	42	51	46	40
8	11	9.8	12	15	19	20	23	29	42	51	46	40
9	11	9.8	12	15	19	20	23	30	42	51	46	40
10	11	9.8	13	15	19	20	21	30	42	51	46	40
11	11	11	13	15	20	20	21	32	45	49	46	40
12	11	12	13	15	20	20	21	33	45	49	46	40
13	11	12	13	15	20	20	21	33	45	49	46	39
14	11	12	13	15	20	20	21	34	45	49	46	39
15	11	12	13	15	21	20	23	35	45	49	46	39
16	11	12	13	15	21	20	23	35	47	49	45	38
17	11	12	13	16	21	20	23	35	47	48	45	38
18	11	12	13	17	21	20	24	35	47	48	45	38
19	11	12	13	17	21	20	24	35	47	48	45	38
20	11	13	13	18	20	20	24	35	47	48	42	38
21	11	12	13	18	20	20	24	35	49	48	42	38
22	11	12	13	19	20	20	24	35	49	48	42	38
23	9.8	12	13	19	20	20	25	35	49	48	42	38
24	9.8	12	13	19	20	20	25	35	49	48	42	38
25	9.8	12	13	19	20	20	25	35	49	48	42	36
26	9.8	12	13	19	21	21	25	35	49	48	42	36
27	9.8	12	13	19	20	21	25	35	49	48	42	36
28	9.8	12	13	19	20	21	25	35	50	48	42	36
29	9.8	12	13	20	------	23	25	35	50	48	42	36
30	9.8	12	13	20	------	23	25	35	50	48	42	36
31	11	------	14	20	------	24	------	35	------	48	42	------
TOTAL	331.4	339.2	398	512	554	630	701	1,006	1,353	1,519	1,386	1,163
MEAN	10.7	11.3	12.8	16.5	19.8	20.3	23.4	32.5	45.1	49.0	44.7	38.8
MAX	11	13	14	20	21	24	25	35	50	51	48	42
MIN	9.8	9.8	12	14	18	19	21	26	38	48	42	36
AC-FT	657	673	789	1,020	1,100	1,250	1,390	2,000	2,680	3,010	2,750	2,310

CAL YR 1973 TOTAL 7,100.6 MEAN 19.5 MAX 29 MIN 9.8 AC-FT 14,080
WTR YR 1974 TOTAL 9,892.6 MEAN 27.1 MAX 51 MIN 9.8 AC-FT 19,620

14053000 CHARLTON CREEK ABOVE CRANE PRAIRIE RESERVOIR, NEAR LA PINE, OREG.

LOCATION.--Lat 43°46'51", long 121°50'06", in NE¼SW¼ sec.1, T.21 S., R.7 E., Deschutes County, in Deschutes National Forest, on left bank 3.0 mi (4.8 km) northwest of Crane Prairie Dam and 18.0 mi (29.0 km) northwest of La Pine.

DRAINAGE AREA.--15.6 mi^2 (40.4 km^2), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--May and June 1923, October 1937 to September 1951, May to September 1952, May to September 1953, May 1954 to September 1955, May 1956 to October 1962, May 1963 to November 1964, April to December 1965, February to November 1966, March 1967 to December 1970, March 1971 to January 1972, March 1972 to current year. Monthly discharge only prior to October 1949, published in WSP 1318. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Water-stage recorder. Datum of gage is 4,458.70 ft (1,359.012 m) above mean sea level. May 1 to June 30, 1923, nonrecording gage at about same site at different datum.

AVERAGE DISCHARGE.--27 years (1937-51, 1954-55, 1956-62, 1963-64, 1967-70, 1972-74), 1.43 ft^3/s (0.04 m^3/s), 1,040 acre-ft/yr (1.28 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 32 ft^3/s (0.91 m^3/s) June 19, gage height, 1.38 ft (0.421 m); maximum recorded gage height, 2.33 ft (0.710 m) Jan. 21, backwater from ice; no flow at times.

Period of record: Maximum discharge, 54 ft^3/s (1.53 m^3/s) June 12, 1950, gage height, 1.53 ft (0.466 m), from rating curve extended above 27 ft^3/s (0.76 m^3/s); maximum gage height, 2.39 ft (0.728 m) Mar. 9, 1957 (ice jam); no flow for several months each year.

Flood of December 1964 (discharge not determined) may have exceeded peak of record.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.20	.10	.20	2.6	19	12		
2				0	.20	.10	.20	2.9	19	10		
3				0	.20	.10	.30	3.2	22	8.5		
4				0	.20	.10	.40	3.7	24	8.0		
5				0	.20	.10	.50	5.0	27	7.0		
6				0	.20	.10	.20	6.5	30	7.0		
7				0	.20	.10	.10	8.0	30	5.0		
8				0	.20	.10	.20	9.5	30	5.0		
9				0	.20	.10	.50	9.0	30	6.0		
10				0	.20	.10	.20	8.0	30	4.5		
11				0	.20	.10	.10	9.5	30	3.5		
12				0	.20	.10	.30	11	28	2.4		
13				.10	.20	.10	.30	10	28	1.8		
14				.10	.20	.20	.20	10	30	1.6		
15				.20	.20	.20	.30	10	30	1.2		
16				.40	.20	.20	.50	8.0	28	1.1		
17				.60	.20	.20	.50	6.5	28	.90		
18				1.0	.20	.20	.70	5.5	30	.80		
19				2.3	.20	.20	.60	5.0	30	.60		
20				4.1	.20	.20	.50	5.0	27	.20		
21				7.9	.20	.20	.50	5.5	24	.10		
22				1.9	.20	.20	.80	6.5	22	0		
23				.60	.20	.20	1.1	7.5	22	0		
24				.20	.20	.20	1.1	9.5	20	0		
25				.20	.20	.20	1.1	12	18	0		
26				.20	.20	.20	.90	15	15	0		
27				.20	.20	.20	.80	17	13	0		
28				.20	.20	.20	.80	19	12	0		
29				.20	------	.20	1.1	19	12	0		
30				.20	------	.20	1.8	19	12	0		
31		------		.20	------	.20	------	19	------	0		------
TOTAL	0	0	0	20.80	5.60	4.90	16.80	287.9	720	87.20	0	0
MEAN	0	0	0	.67	.20	.16	.56	9.29	24.0	2.81	0	0
MAX	0	0	0	7.9	.20	.20	1.8	19	30	12	0	0
MIN	0	0	0	0	.20	.10	.10	2.6	12	0	0	0
AC-FT	0	0	0	41	11	9.7	33	571	1,430	173	0	0

CAL YR 1973 TOTAL 75.00 MEAN .21 MAX 4.5 MIN 0 AC-FT 149
WTR YR 1974 TOTAL 1,143.20 MEAN 3.13 MAX 30 MIN 0 AC-FT 2,270

NOTE.--No gage-height record Feb. 5 to Mar. 24.

14053500 CRANE PRAIRIE RESERVOIR NEAR LA PINE, OREG.

LOCATION.--Lat 43°45'20", long 121°47'00", in SW¼SW¼ sec.16, T.21 S., R.8 E., Deschutes County, in Deschutes National Forest, on control structure at Crane Prairie Dam on Deschutes River, 15.0 mi (24.1 km) northwest of La Pine, and at mile 238.3 (383.4 km).

DRAINAGE AREA.--254 mi² (658 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--November 1922 to November 1935, April to December 1936, April 1937 to current year. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Water-stage recorder. Datum of gage is 4,400.0 ft (1,341.120 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been adjusted to elevations above mean sea level. Prior to July 13, 1940, nonrecording gage, at site 150 ft (45.7 m) upstream at same datum. July 13, 1940, to Sept. 15, 1966, nonrecording gage, at present site and datum.

EXTREMES.--Current year: Maximum contents, 54,740 acre-ft (67.5 hm³) June 10, elevation, 4,444.80 ft (1,354.775 m); minimum contents, 9,820 acre-ft (12.1 hm³) Oct. 1, elevation, 4,433.61 ft (1,351.364 m).

Period of record: Maximum contents observed, 60,500 acre-ft (74.6 hm³) June 5-7, 1943, elevation, 4,446.0 ft (1,355.14 m); no usable contents at times.

REMARKS.--Reservoir originally formed by earthfill dam completed in 1922, reconstructed as rock-faced, earthfill dam in 1940. Capacity, 55,340 acre-ft (68.2 hm³) between elevation 4,424.0 ft (1,348.44 m) lip of fish-screen structure and 4,445.0 ft (1,354.84 m) crest of spillway. Some dead storage in isolated pools in reservoir at stages below 4,428 ft (1,349.7 m) and natural flow passing through reservoir when outlet gates are open prevents withdrawal of remaining storage to elevation of sill of gates. Crater Creek Canal diverts water to Tumalo Creek basin from tributaries of Soda Creek above station. Released water diverted from Deschutes River near Bend for irrigation near Bend and Redmond.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1318: 1925, 1940-41, 1950. WSP 1448: 1925(M,m), 1940(m), 1950(m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	4,433.62	9,840	-
Oct. 31	4,435.14	14,580	+4,740
Nov. 30	4,437.75	23,800	+9,220
Dec. 31	4,439.83	31,970	+8,170
CAL YR 1973	-	-	-19,270
Jan. 31	4,441.23	37,870	+5,900
Feb. 28	4,441.68	39,830	+1,960
Mar. 31	4,442.12	41,780	+1,950
Apr. 30	4,443.13	46,370	+4,590
May 31	4,444.28	51,820	+5,450
June 30	4,444.04	50,650	-1,170
July 31	4,441.60	39,480	-11,170
Aug. 31	4,440.54	34,930	-4,550
Sept.30	4,440.16	33,330	-1,600
WTR YR 1974	-	-	+23,490

14054000 DESCHUTES RIVER BELOW CRANE PRAIRIE RESERVOIR, NEAR LA PINE, OREG.

LOCATION.--Lat 43°45'13", long 121°46'57", in SW¼NW¼ sec.16, T.21 S., R.8 E., Deschutes County, Deschutes National Forest, on left bank 0.1 mi (0.2 km) downstream from Crane Prairie Dam, 15 mi (24 km) northwest of La Pine, and at mile 238.2 (383.3 km).

DRAINAGE AREA.--254 mi² (658 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--August 1907 to November 1908 and August 1912 to September 1913 (fragmentary), October 1913 to September 1917, February 1922 to current year. Monthly discharge only for some periods, published in WSP 1318. Prior to October 1949, published as "at Crane Prairie, near Lapine." Published as "near Lapine" 1949-64.

GAGE.--Water-stage recorder. Datum of gage is 4,419.78 ft (1,347.149 m) above mean sea level (Pacific Power & Light Co. bench mark). Aug. 15, 1907, to Sept. 30, 1917, and Feb. 23 to June 8, 1922, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datums. June 9, 1922, to May 9, 1932, nonrecording gage or water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--56 years, 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 832 ft³/s (23.6 m³/s) July 15, gage height, 2.82 ft (0.860 m); minimum, 37 ft³/s (1.05 m³/s) Oct. 18.

Period of record: Maximum discharge, 1,170 ft³/s (33.1 m³/s) July 28, 1947, gage height, 3.34 ft (1.018 m); minimum, 1.0 ft³/s (0.028 m³/s) Oct. 10, Nov. 29, 1966.

REMARKS.--Records good. Flow regulated since 1922 by Crane Prairie Reservoir (see sta 14053500). No diversion above station.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1318: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	56	43	108	111	111	91	130	278	600	683	543
2	120	56	43	108	113	111	91	130	310	586	678	543
3	120	56	43	108	113	111	91	130	307	586	672	547
4	120	56	43	108	113	111	91	132	307	571	661	543
5	120	55	43	108	113	113	91	132	310	562	645	543
6	120	60	43	108	113	113	91	132	310	547	635	547
7	120	60	43	108	113	111	91	132	310	543	645	547
8	120	60	43	108	113	111	66	132	310	538	645	547
9	108	60	43	108	113	113	46	132	310	534	640	476
10	104	60	43	108	113	113	46	132	348	605	645	485
11	104	60	43	108	113	113	44	135	476	650	635	493
12	102	60	43	108	111	113	44	135	534	667	600	520
13	102	60	43	108	111	113	44	135	576	667	562	524
14	104	60	43	111	111	113	44	135	576	683	557	467
15	104	54	43	111	111	113	44	135	571	700	557	476
16	104	43	43	111	111	113	44	135	571	667	562	476
17	104	43	44	111	111	113	44	135	571	667	566	480
18	77	43	44	113	111	113	44	135	571	672	557	480
19	58	43	44	113	111	113	44	135	610	678	547	480
20	56	42	44	113	111	113	44	138	625	678	547	485
21	56	42	44	113	111	113	44	140	625	678	552	485
22	56	42	44	113	111	113	44	140	620	678	552	485
23	56	43	44	113	111	113	44	140	615	683	557	485
24	56	43	44	113	111	113	44	175	615	678	562	451
25	55	43	44	113	111	113	44	211	615	672	566	430
26	55	43	44	113	111	113	57	214	615	678	557	430
27	55	43	44	113	111	113	130	214	615	689	557	430
28	55	43	70	111	111	113	130	214	610	689	557	430
29	56	43	108	111	------	102	130	214	605	689	557	430
30	56	43	108	111	------	91	130	214	605	689	557	430
31	56	------	108	111	------	91	------	214	------	689	547	------
TOTAL	2,722	1,515	1,566	3,422	3,128	3,436	2,032	4,757	14,921	19,913	18,360	14,688
MEAN	87.8	50.5	50.5	110	112	111	67.7	153	497	642	592	490
MAX	143	60	108	113	113	113	130	214	625	700	683	547
MIN	55	42	43	108	111	91	44	130	278	534	547	430
AC-FT	5,400	3,010	3,110	6,790	6,200	6,820	4,030	9,440	29,600	39,500	36,420	29,130

CAL YR 1973 TOTAL 62,943 MEAN 172 MAX 489 MIN 42 AC-FT 124,800
WTR YR 1974 TOTAL 90,460 MEAN 248 MAX 700 MIN 42 AC-FT 179,400

14054500 BROWN CREEK NEAR LA PINE, OREG.

LOCATION.--Lat 43°42'57", long 121°48'10", in NE¼SW¼ sec.29, T.21 S., R.8 E., Deschutes County, in Deschutes National Forest, on right bank at highway crossing and 15 mi (24 km) northwest of La Pine.

DRAINAGE AREA.--21 mi² (54 km²), approximately, hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--May 1922 to September 1925, July 1938 to current year. Monthly discharge only July 1938 to September 1949, published in WSP 1318. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Water-stage recorder. Altitude of gage is 4,370 ft (1,332 m), from topographic map. May 24, 1922, to Sept. 30, 1925, nonrecording gage, and July 1, 1938, to Nov. 1, 1945, water-stage recorder, at site 0.4 mi (0.6 km) downstream at different datums. Nov. 2, 1945, to Aug. 25, 1971, water-stage recorder at site 0.8 mi (1.3 km) upstream at datum 4,372.94 ft (1,332.872 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 39.1 ft³/s (1.11 m³/s), 28,330 acre-ft/yr (34.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 65 ft³/s (1.84 m³/s) Aug. 19, 20, gage height, 1.01 ft (0.308 m); maximum gage height, 2.15 ft (0.655 m) Jan. 2, backwater from ice or debris; minimum daily discharge, 22 ft³/s (0.623 m³/s) Jan. 12, 13.

Period of record: Maximum discharge, 104 ft³/s (2.95 m³/s) Aug. 4, 1956, gage height, 1.64 ft (0.500 m); maximum gage height, 2.15 ft (0.655 m) Jan. 2, 1974, backwater from ice or debris; minimum discharge, 16 ft³/s (0.453 m³/s) July 22-25, 1941, and at times December 1941 to March 1942.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1448: 1922-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	30	29	27	28	27	33	45	46	51	61	63
2	30	29	28	26	28	27	33	45	46	51	62	63
3	30	29	28	26	27	27	32	45	46	51	62	63
4	30	29	27	25	27	27	32	45	47	51	63	63
5	30	29	27	24	27	27	32	46	50	52	63	63
6	30	29	27	24	27	27	32	46	52	52	63	63
7	30	29	31	24	27	27	32	46	52	52	63	63
8	30	30	29	24	27	27	33	46	51	53	64	63
9	30	30	28	24	27	27	33	46	50	54	64	63
10	30	31	27	24	26	27	33	46	49	54	64	63
11	30	32	27	24	26	27	34	46	49	54	64	63
12	30	33	27	22	26	27	34	46	49	54	64	63
13	29	30	27	22	26	27	34	46	49	54	64	62
14	29	29	27	24	26	28	36	46	49	55	64	61
15	29	30	27	24	26	28	37	47	49	55	64	61
16	29	31	27	24	27	28	37	47	49	55	64	61
17	29	30	28	24	26	28	39	47	49	55	64	61
18	29	29	27	27	27	28	39	47	49	56	64	61
19	29	28	27	27	27	28	38	46	49	56	65	61
20	29	28	28	27	27	28	39	46	49	57	65	61
21	30	28	28	27	27	28	40	46	50	57	64	60
22	30	28	27	27	27	29	43	46	50	57	63	60
23	30	28	27	27	27	29	45	46	50	58	63	60
24	30	28	28	27	27	30	43	46	50	58	63	60
25	29	28	28	27	27	30	42	46	50	58	64	60
26	29	28	27	27	27	31	41	46	50	59	64	60
27	29	28	28	27	27	32	41	46	50	60	64	60
28	29	28	28	27	27	32	42	45	50	61	64	60
29	28	30	28	27	------	33	43	46	51	61	63	60
30	29	30	27	27	------	33	45	46	51	61	63	60
31	30	------	27	28	------	33	------	46	------	61	63	------
TOTAL	915	879	856	791	751	887	1,117	1,425	1,481	1,723	1,969	1,845
MEAN	29.5	29.3	27.6	25.5	26.8	28.6	37.2	46.0	49.4	55.6	63.5	61.5
MAX	30	33	31	28	28	33	45	47	52	61	65	63
MIN	28	28	27	22	26	27	32	45	46	51	61	60
AC-FT	1,810	1,740	1,700	1,570	1,490	1,760	2,220	2,830	2,940	3,420	3,910	3,660

CAL YR 1973 TOTAL 12,729 MEAN 34.9 MAX 52 MIN 27 AC-FT 25,250
WTR YR 1974 TOTAL 14,639 MEAN 40.1 MAX 65 MIN 22 AC-FT 29,040

14055500 ODELL CREEK NEAR CRESCENT, OREG.

LOCATION.--Lat 43°32'51", long 121°57'41", in SW¼SW¼ sec.25, T.23 S., R.6 E., Klamath County, on left bank 1,000 ft (305 m) downstream from Odell Lake, 3 mi (4.8 km) north of town of Crescent Lake, and 14 mi (23 km) northwest of Crescent.

DRAINAGE AREA.--39.0 mi^2 (101.0 km^2).

PERIOD OF RECORD.--August, September 1911, August, September 1912, January, February, May to November 1913, April to August 1914, December 1923 to June 1924, May 1933 to current year. Gage heights and discharge measurements only August, September 1911, January 1913. Published as Odell Lake outlet near Crescent 1911-12. Records for January to July 1912, published in WSP 332, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 4,799.05 ft (1,462.750 m) above mean sea level. Prior to June 7, 1924, nonrecording gage at several sites within 700 ft (213 m) of present site at various datums.

AVERAGE DISCHARGE.--41 years (1933-74), 81.9 ft^3/s (2.32 m^3/s), 28.52 in/yr (724 mm/yr), 59,340 acre-ft/yr (73.2 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 368 ft^3/s (10.4 m^3/s) Jan. 19, gage height, 1.31 ft (0.399 m), from recorded range in stage; minimum, 10 ft^3/s (0.28 m^3/s) Apr. 11.

Period of record: Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Dec. 25, 1964, gage height, 2.60 ft (0.792 m), from rating curve extended above 250 ft^3/s (7.08 m^3/s); minimum, 9 ft^3/s (0.25 m^3/s) sometime during period Sept. 7-30, 1934.

REMARKS.--Records good. Flow affected occasionally in winter by ice jams at outlet of Odell Lake, and slightly affected at times by seiches in Odell Lake. No diversion above station.

REVISIONS (WATER YEARS).--WSP 754: Drainage area. WSP 794: 1933-34. WSP 1448: 1924, 1934(m). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	70	123	130	146	92	139	78	132	182	102	68
2	31	66	112	116	136	95	139	78	136	170	102	71
3	30	64	105	105	121	95	132	76	146	166	102	73
4	29	68	98	93	125	92	121	81	162	162	102	73
5	29	102	93	86	125	95	114	83	215	158	99	71
6	30	137	87	83	111	99	108	86	240	150	99	71
7	30	126	109	80	105	92	105	92	246	143	89	71
8	30	137	105	78	95	83	99	102	235	143	83	66
9	29	173	102	76	89	78	92	108	225	150	78	68
10	29	130	99	75	83	73	89	121	220	146	76	68
11	29	156	98	74	78	73	51	125	215	143	71	66
12	29	145	96	78	78	81	58	132	220	139	68	61
13	29	200	112	90	76	89	92	128	225	136	66	58
14	28	195	105	100	73	99	86	132	230	132	63	58
15	28	185	99	125	76	99	83	139	240	132	63	58
16	28	176	96	190	83	99	78	132	240	125	66	61
17	28	144	102	270	83	99	78	132	246	125	68	61
18	28	156	96	290	95	95	78	132	258	125	68	61
19	28	133	93	310	114	89	78	125	270	125	68	61
20	29	130	102	290	108	83	73	118	264	125	66	61
21	34	130	112	270	105	81	73	111	264	125	66	58
22	44	123	112	252	108	76	73	108	258	118	66	58
23	50	116	116	225	102	73	78	105	252	118	68	59
24	52	114	114	200	92	71	83	105	240	111	68	58
25	50	120	123	186	86	71	81	105	235	99	66	61
26	49	120	116	182	89	71	78	105	220	81	66	61
27	45	115	123	174	89	71	81	111	205	86	66	56
28	52	112	140	162	92	92	78	121	190	95	66	56
29	49	119	168	146	------	108	76	132	182	99	66	56
30	47	126	160	136	------	125	76	132	182	102	66	56
31	59	------	144	139	------	125	------	132	------	105	68	------
TOTAL	1,115	3,923	3,461	4,811	2,763	2,764	2,670	3,467	6,593	4,016	2,331	1,886
MEAN	36.0	131	112	155	98.7	89.2	89.0	112	220	130	75.2	62.9
MAX	59	200	168	310	146	125	139	139	270	182	102	73
MIN	28	64	87	74	73	71	51	76	132	81	63	56
CFSM	.92	3.36	2.87	3.97	2.53	2.29	2.28	2.87	5.64	3.33	1.93	1.61
IN.	1.06	3.74	3.30	4.59	2.64	2.64	2.55	3.31	6.29	3.83	2.22	1.40
AC-FT	2,210	7,780	6,860	9,540	5,480	5,480	5,300	6,880	13,080	7,970	4,620	3,740

CAL YR 1973 TOTAL 25,188 MEAN 69.0 MAX 200 MIN 14 CFSM 1.77 IN 24.03 AC-FT 49,960
WTR YR 1974 TOTAL 39,800 MEAN 109 MAX 310 MIN 28 CFSM 2.79 IN 37.96 AC-FT 78,940

NOTE.--No gage-height record Jan. 5-21.

14056000 WICKIUP RESERVOIR NEAR LA PINE, OREG.

LOCATION.--Lat 43°41'02", long 121°41'20", in SW¼NE¼ sec.7, T.22 S., R.9 E., Deschutes County, in Deschutes National Forest, in gate-chamber structure at Wickiup Dam on Deschutes River, 9.0 mi (14.5 km) west of La Pine, and at mile 226.8 (364.9 km).

DRAINAGE AREA.--482 mi² (1,250 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--December 1942 to current year. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Jan. 15, 1945, nonrecording gages at nearby sites at same datum.

EXTREMES.--Current year: Maximum contents observed, 204,000 acre-ft (252 hm³) Apr. 8, elevation, 4,338.01 ft (1,322.225 m); minimum observed, 30,790 acre-ft (38.0 hm³) Oct. 1, elevation 4,301.29 ft (1,311.033 m).

Period of record: Maximum contents observed, 204,000 acre-ft (252 hm³) Apr. 8, 1974, elevation, 4,338.01 ft (1,322.225 m); minimum observed since reservoir first filled in March 1949, 534 acre-ft (0.66 hm³), revised on basis of computer expanded capacity table dated June 1970, Oct. 18, 1952, elevation, 4,270.86 ft (1,301.758 m).

REMARKS.--Reservoir is formed by rock-faced, earthfill dam completed in 1949. Some storage began in December 1942, capacity, 182,100 acre-ft (225 hm³) between elevations 4,265.0 ft (1,299.97 m), no storage, and 4,336.0 ft (1,321.61 m) crest of spillway, with earth plug to elevation 4,339.0 ft (1,322.53 m). Crater Creek Canal diverts water above station to Tumalo Creek basin. Released water is diverted from Deschutes River at Bend for irrigation near Madras.

COOPERATION.--Daily elevations furnished by North Unit Irrigation District, and capacity table furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	4,300.99	30,240	-
Oct. 31	4,309.93	48,530	+18,290
Nov. 30	4,319.97	76,090	+27,560
Dec. 31	4,325.93	101,500	+25,410
CAL YR 1973	-	-	-76,100
Jan. 31	4,330.98	135,700	+34,200
Feb. 28	4,334.37	165,800	+30,100
Mar. 31	4,337.38	197,000	+31,200
Apr. 30	4,337.83	201,900	+4,900
May 31	4,336.17	183,900	-18,000
June 30	4,334.19	164,000	-19,900
July 31	4,332.94	152,400	-11,600
Aug. 31	4,331.67	141,400	-11,000
Sept.30	4,329.91	127,400	-14,000
WTR YR 1974	-	-	+97,160

14056500 DESCHUTES RIVER BELOW WICKIUP RESERVOIR, NEAR LA PINE, OREG.

LOCATION.--Lat 43°41'10", long 121°41'13", in NW¼NE¼ sec.7, T.22 S., R.9 E., Deschutes County, on left bank 1,000 ft (305 m) downstream from Wickiup Dam, 9 mi (14 km) west of La Pine, and at mile 226.4 (364.3 km).

DRAINAGE AREA.--483 mi² (1,251 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--June 1938 to current year. Monthly discharge only June 1938, published in WSP 1318. Published as "near Lapine" 1938-64.

GAGE.--Water-stage recorder. Datum of gage is 4,257.41 ft (1,297.659 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--36 years, 745 ft³/s (21.1 m³/s), 539,800 acre-ft/yr (666 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,610 ft³/s (45.6 m³/s) Aug. 17-19, gage height, 6.00 ft (1.829 m); maximum gage height, 6.03 ft (1.838 m) Sept. 11; minimum discharge, 1.9 ft³/s (0.054 m³/s) Nov. 10.

Period of record: Maximum discharge, 2,280 ft³/s (64.6 m³/s) July 28 to Aug. 1, 1956, July 31, Aug. 1, 2, 1962; minimum, 1.9 ft³/s (0.054 m³/s) Nov. 10, 1973; minimum daily, 10 ft³/s (0.283 m³/s) Jan. 17, 1952.

REMARKS.--Records good. Flow regulated by Crane Prairie Reservoir (see station 14053500), and since 1942 by Wickiup Reservoir (see station 14056500). Some leakage from Crane Prairie and Wickiup Reservoirs does not pass station. Some spill bypassed station in 1955. Crater Creek canal diverts water above station to Tuamlo Creek basin.

REVISIONS (WATER YEARS).--WSP 1448: 1944(m), 1947-51(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	548	31	23	24	22	20	29	470	1,310	1,470	1,580	1,320
2	548	21	22	24	22	20	29	470	1,340	1,450	1,580	1,350
3	554	22	23	23	22	20	29	470	1,330	1,480	1,600	1,390
4	557	24	24	21	22	20	29	485	1,350	1,480	1,600	1,410
5	571	25	24	21	22	20	110	542	1,350	1,480	1,600	1,410
6	574	26	23	21	22	21	443	693	1,340	1,490	1,540	1,400
7	581	25	23	21	22	21	437	882	1,280	1,490	1,520	1,440
8	602	23	22	21	22	21	455	938	1,180	1,510	1,460	1,460
9	595	14	22	21	22	21	485	938	1,020	1,410	1,390	1,500
10	595	12	21	21	22	22	485	872	1,060	1,370	1,390	1,520
11	592	24	21	21	21	22	485	788	1,110	1,220	1,400	1,510
12	592	25	21	21	20	23	485	760	1,170	1,210	1,400	1,500
13	592	24	21	22	20	23	488	763	1,220	1,230	1,400	1,460
14	592	22	21	23	20	24	485	781	1,270	1,280	1,380	1,430
15	540	21	21	24	20	24	485	781	1,280	1,300	1,350	1,430
16	458	22	21	23	20	24	485	742	1,270	1,320	1,460	1,430
17	446	23	22	22	20	25	473	721	1,240	1,340	1,610	1,430
18	443	23	21	22	20	25	437	725	1,230	1,360	1,610	1,390
19	443	23	21	22	20	25	437	749	1,190	1,290	1,520	1,350
20	443	23	20	20	20	25	437	763	1,200	1,220	1,270	1,360
21	446	23	21	20	20	25	437	795	1,230	1,230	1,230	1,360
22	336	23	22	20	20	25	437	816	1,240	1,260	1,230	1,360
23	101	24	23	20	20	25	440	858	1,250	1,320	1,230	1,360
24	63	24	23	20	20	26	464	875	1,280	1,350	1,250	1,340
25	51	23	24	21	20	26	476	1,010	1,310	1,400	1,240	1,300
26	60	22	24	21	20	26	473	1,090	1,360	1,430	1,240	1,300
27	63	21	24	21	20	27	473	1,170	1,400	1,430	1,240	1,300
28	56	22	24	21	20	27	473	1,350	1,400	1,480	1,250	1,160
29	37	23	24	21	------	29	470	1,430	1,420	1,510	1,260	992
30	37	23	24	21	------	29	470	1,400	1,440	1,520	1,270	970
31	40	------	24	22	------	29	------	1,350	------	1,570	1,290	------
TOTAL	12,156	681	694	666	581	740	11,841	26,477	38,070	42,900	43,390	40,932
MEAN	392	22.7	22.4	21.5	20.8	23.9	395	854	1,269	1,384	1,400	1,364
MAX	602	31	24	24	22	29	488	1,430	1,440	1,570	1,610	1,520
MIN	37	12	20	20	20	20	29	470	1,020	1,210	1,230	970
AC-FT	24,110	1,350	1,380	1,320	1,150	1,470	23,490	52,520	75,510	85,090	86,060	81,190

CAL YR 1973 TOTAL 314,819 MEAN 863 MAX 2,020 MIN 12 AC-FT 624,400
WTR YR 1974 TOTAL 219,128 MEAN 600 MAX 1,610 MIN 12 AC-FT 434,600

14057500 FALL RIVER NEAR LA PINE, OREG.

LOCATION.--Lat 43°47'48", long 121°34'18", in NW¼SE¼ sec.31, T.20 S., R.10 E., Deschutes County, on left bank 50 ft (15 m) downstream from pond spillway at State fish hatchery, 9 mi (14 km) northeast of La Pine, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--45.1 mi² (116.8 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--July 1938 to current year. Records for May to September 1912 at site 3 mi (4.8 km) downstream not equivalent owing to difference in drainage area. Prior to Oct. 1, 1964, published as "near Lapine."

GAGE.--Water-stage recorder. Altitude of gage is 4,220 ft (1,286 m), by barometer.

AVERAGE DISCHARGE.--36 years, 152 ft³/s (4.30 m³/s), 110,100 acre-ft/yr (136 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 189 ft³/s (5.35 m³/s) May 29, gage height, 1.69 ft (0.515 m); minimum, 105 ft³/s (2.97 m³/s) Mar. 15.

Period of record: Maximum discharge, 254 ft³/s (7.19 m³/s) June 5, 1965, gage height, 2.02 ft (0.616 m); minimum, 67 ft³/s (1.90 m³/s) sometime during period Sept. 20-30, 1969.

REMARKS.--Records good. Diversion only to ponds at fish hatchery 50 ft (15 m) above station, from which water returns to river above station. Stream is spring fed and momentary extremes are caused by operation of fish hatchery.

REVISIONS (WATER YEARS).--WSP 984: 1938-42(M,m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	151	147	144	142	136	142	167	175	175	167	166
2	153	150	145	142	141	136	144	169	175	174	167	166
3	153	150	145	142	141	136	144	169	175	174	167	166
4	153	151	145	142	142	136	144	169	175	174	169	166
5	153	155	145	142	141	136	144	171	175	174	169	164
6	155	151	145	141	139	135	144	171	175	174	169	164
7	153	151	148	141	139	135	144	174	175	174	169	164
8	153	153	145	141	139	135	145	172	175	175	169	161
9	153	151	145	141	139	133	145	175	175	175	169	161
10	153	151	145	141	136	135	145	177	175	175	169	159
11	153	151	147	141	139	135	145	177	175	174	169	159
12	153	150	147	142	139	136	145	179	174	174	169	159
13	151	150	147	144	139	135	147	179	174	175	167	159
14	151	150	147	145	139	138	148	179	172	175	167	159
15	151	150	145	145	138	132	150	180	172	175	167	161
16	151	150	145	145	138	132	148	180	174	174	167	161
17	151	148	147	145	138	132	151	180	174	174	167	161
18	151	148	145	144	139	135	153	180	174	175	166	161
19	153	148	145	144	139	129	155	179	174	174	166	161
20	153	148	145	144	136	132	156	179	175	174	166	161
21	153	148	145	144	136	132	158	179	174	174	167	161
22	153	147	145	144	136	133	159	177	174	174	167	159
23	153	147	145	143	136	135	164	177	174	174	167	161
24	153	147	145	143	135	135	164	177	175	172	167	159
25	151	148	145	143	136	136	166	175	177	172	167	159
26	151	147	145	142	136	138	166	174	175	172	167	158
27	151	147	145	142	136	139	166	174	175	172	167	158
28	151	147	145	142	138	141	166	175	175	171	167	158
29	151	147	147	142	------	142	166	175	175	171	167	159
30	151	147	144	142	------	144	166	175	175	169	167	158
31	153	------	144	144	------	142	------	175	------	167	167	------
TOTAL	4,723	4,479	4,510	4,427	3,874	4,206	4,580	5,439	5,237	5,376	5,192	4,829
MEAN	152	149	145	143	138	136	153	175	175	173	167	161
MAX	155	155	148	145	142	144	166	180	177	175	169	166
MIN	151	147	144	141	135	129	142	167	172	167	166	158
AC-FT	9,370	8,880	8,950	8,780	7,680	8,340	9,080	10,790	10,390	10,660	10,300	9,580

CAL YR 1973 TOTAL 60,030 MEAN 164 MAX 177 MIN 144 AC-FT 119,100
WTR YR 1974 TOTAL 56,872 MEAN 156 MAX 180 MIN 129 AC-FT 112,800

14059500 CRESCENT LAKE NEAR CRESCENT, OREG.

LOCATION.--Lat 43°30'05", long 121°58'20", in SW¼ sec.11, T.24 S., R.6 E., Klamath County, Deschutes National Forest, on outlet works at dam on Crescent Creek, 0.8 mi (1.3 km) south of town of Crescent Lake, 14.0 mi (22.5 km) west of Crescent, and at mile 30.0 (48.3 km).

DRAINAGE AREA.--60.7 mi^2 (157 km^2), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--August 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1956, nonrecording gage at nearby site at datum 4,825.16 ft (1,470.709 m), above mean sea level. Oct. 1, 1956, to Sept. 12, 1966, nonrecording gage, at present site and datum.

EXTREMES.--Current year: Maximum contents, 90,820 acre-ft (112 hm^3) June 19, elevation, 4,846.53 ft (1,477.222 m); minimum, 54,940 acre-ft (67.7 hm^3) Oct. 1, elevation, 4,837.24 ft (1,474.391 m).

Period of record: Maximum contents observed, 92,040 acre-ft (113 hm^3) June 29, 1972, elevation, 4,846.84 ft (1,477.317 m); minimum observed, 9,640 acre-ft (11.9 hm^3) Oct. 21, 1931, elevation, 4,827.91 ft (1,471.547 m).

REMARKS.--Reservoir originally formed by dam of earth and logs completed in 1922, reconstructed as earthfill dam in 1956. Capacity, 117,200 acre-ft (145 hm^3) between elevations 4,821.5 ft (1,469.59 m), sill of outlet gate and 4,853.0 ft (1,479.19 m), crest of spillway. Maximum allowable storage, 86,050 acre-ft (106 hm^3) elevation, 4,845.32 ft (1,476.854 m). Dead storage about 500,000 acre-ft (616 hm^3) Oregon Game Commission survey. Records given herein represent usable contents. Water surface probably cannot be lowered below elevation 4,823.4 ft (1,470.17 m) owing to natural flow through reservoir. Released water is diverted from Deschutes River at Bend for irrigation near Tumalo.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1318: 1922-31. WSP 1448: 1923-31(M,m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	4,837.24	54,940	-
Oct. 31	4,838.01	57,870	+2,930
Nov. 30	4,839.79	64,650	+6,780
Dec. 31	-	a69,500	+4,850
CAL YR 1973	-	-	-7,190
Jan. 31	4,842.77	76,120	+6,620
Feb. 28	4,843.72	79,820	+3,700
Mar. 31	4,844.61	83,290	+3,470
Apr. 30	4,844.81	84,070	+780
May 31	4,846.10	89,110	+5,040
June 30	4,846.21	89,340	+430
July 31	4,844.44	82,630	-6,910
Aug. 31	4,841.81	72,410	-10,220
Sept.30	4,840.15	66,040	-6,370
WTR YR 1974	-	-	+11,100

a Interpolated.

14060000 CRESCENT CREEK AT CRESCENT LAKE, NEAR CRESCENT, OREG.

LOCATION.--Lat 43°30'11", long 121°58'20", in SE¼SW¼ sec.11, T.24 S., R.6 E., Klamath County, Deschutes National Forest, on left bank 400 ft (122 m) downstream from Crescent Lake Dam, 0.5 mi (0.8 km) south of town of Crescent Lake, 14 mi (23 km) west of Crescent, and at mile 29.9 (48.1 km).

DRAINAGE AREA.--60.7 mi^2 (157.2 km^2), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--January to September 1911 (gage heights and discharge measurements only), January 1912 to July 1915, July to September 1927, May 1928 to current year. Published as Crescent Lake outlet near Crescent January 1911 to September 1912, and as Crescent Creek at outlet of Crescent Lake, near Crescent October 1913 to July 1915.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 4,819.96 ft (1,469.124 m) above mean sea level. See WSP 1935 for history of changes prior to Sept. 11, 1936.

AVERAGE DISCHARGE.--48 years (1912-14, 1928-74), 57.5 ft^3/s (1.63 m^3/s), 41,660 acre-ft/yr (51.4 hm^{3}yr).

EXTREMES.--Current year: Maximum discharge, 254 ft^3/s (7.19 m^3/s) June 5, gage height, 2.83 ft (0.863 m); no flow Oct. 1 to Dec. 25.

Period of record: Maximum discharge, 313 ft^3/s (8.86 m^3/s) July 9, 1929, Aug. 9, 1936; no flow at times.

REMARKS.--Records good. Flow regulated since 1922 by Crescent Lake (see station 14059500). No diversion above station.

REVISIONS.--WSP 1218: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.8	1.6	1.6	1.6	24	124	239	235	202
2			0	1.8	1.6	1.6	1.6	24	124	239	240	202
3			0	1.8	1.6	1.6	1.6	24	124	237	240	202
4			0	1.8	1.6	1.6	1.6	24	124	237	240	200
5			0	1.8	1.6	1.6	1.6	24	177	237	240	200
6			0	1.8	1.6	1.6	1.6	24	253	236	239	200
7			0	1.8	1.6	1.6	1.6	24	253	236	237	199
8			0	2.0	1.6	1.6	1.6	24	253	235	237	199
9			0	2.2	1.6	1.6	1.6	24	253	235	236	198
10			0	2.4	1.4	1.6	9.5	24	252	235	236	198
11			0	2.6	1.4	1.6	24	24	250	233	236	196
12			0	2.8	1.6	1.6	24	24	252	233	235	196
13			0	3.0	1.6	1.6	24	24	252	232	233	195
14			0	3.0	1.6	1.6	24	24	252	232	233	195
15			0	2.5	1.6	1.6	23	24	250	232	233	195
16			0	2.3	1.6	1.6	23	24	250	232	233	195
17			0	2.3	1.6	1.6	23	24	250	232	233	195
18			0	2.0	1.6	1.6	23	24	249	232	232	194
19			0	2.0	1.6	1.6	23	25	247	232	230	194
20			0	2.0	1.6	1.6	23	25	243	232	228	194
21			0	2.0	1.6	1.6	24	25	242	232	226	194
22			0	2.0	1.6	1.6	24	25	242	232	226	192
23			0	2.0	1.6	1.6	24	25	242	232	226	192
24			0	2.0	1.6	1.6	24	25	242	232	225	192
25			0	2.0	1.6	1.6	24	25	242	230	225	192
26			.37	2.0	1.6	1.6	24	27	242	230	225	192
27			1.8	1.8	1.6	1.6	24	28	240	230	223	93
28			1.8	1.8	1.6	1.6	24	28	240	229	223	1.8
29			1.8	1.8	------	1.6	24	28	240	229	214	1.8
30			1.8	1.8	------	1.6	24	78	239	229	202	1.8
31		------	1.8	1.8	------	1.6	------	124	------	228	202	------
TOTAL	0	0	9.37	64.7	44.4	49.6	497.9	920	6,843	7,221	7,123	5,201.4
MEAN	0	0	.30	2.09	1.59	1.60	16.6	29.7	228	233	230	173
MAX	0	0	1.8	3.0	1.6	1.6	24	124	253	239	240	202
MIN	0	0	0	1.8	1.4	1.6	1.6	24	124	228	202	1.8
AC-FT	0	0	19	128	88	98	988	1,820	13,570	14,320	14,130	10,320

CAL YR 1973 TOTAL 22,871.77 MEAN 62.7 MAX 270 MIN 0 AC-FT 45,370
WTR YR 1974 TOTAL 27,974.37 MEAN 76.6 MAX 253 MIN 0 AC-FT 55,490

14063000 LITTLE DESCHUTES RIVER NEAR LA PINE, OREG.

LOCATION.--Lat 43°41'21", long 121°30'06", in SW¼SW¼ sec.2, T.22 S., R.10 E., Deschutes County, on right bank 10 ft (3 m) downstream from highway bridge at former town of Rosland, 1.1 mi (1.8 km) north of La Pine, and at mile 26.8 (43.1 km).

DRAINAGE AREA.--859 mi^2 (2,225 km^2), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--September 1910 to January 1911, March, April, August 1911, March to September 1912, June to October 1913, June to November 1918, August to October 1920, May 1924 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as Deschutes River near Lapine 1910-12, as East Fork Deschutes River near Lapine 1913-20, and as Little Deschutes River near Lapine 1924-64.

GAGE.--Water-stage recorder. Datum of gage is 4,192.81 ft (1,277.968 m) above mean sea level. Sept. 1, 1910, to Aug. 31, 1911, nonrecording gage at present site at different datum. Mar. 1 to Sept. 30, 1912, nonrecording gage at site 1.2 mi (1.9 km) downstream at different datum. June 1, 1913, to Sept. 28, 1928, nonrecording gagé and Sept. 29, 1928, to Sept. 30, 1931, water-stage recorder at present site at different datums.

AVERAGE DISCHARGE.--50 years (1924-74), 207 ft^3/s (5.86 m^3/s), 150,000 acre-ft per year (185 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) June 8, gage height, 7.16 ft (2.182 m); minimum, 34 ft^3/s (0.96 m^3/s) Oct. 4.

Period of record: Maximum discharge, 3,660 ft^3/s (104 m^3/s) Dec. 25, 1964, gage height, 8.18 ft (2.493 m); minimum, 8 ft^3/s (0.227 m^3/s) Sept. 2, 3, 1931.

REMARKS.--Records good. Flow regulated since 1922 by Crescent Lake (see station 14063000). Many diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1218: 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	79	235	150	352	203	492	586	633	608	373	282
2	39	98	234	120	363	195	478	608	676	584	367	277
3	38	99	197	120	339	186	426	635	712	568	367	276
4	36	92	171	120	307	179	378	650	712	558	367	276
5	36	71	153	120	293	189	355	655	715	555	369	274
6	37	77	152	110	278	198	356	670	737	550	370	273
7	37	84	173	120	265	184	364	688	805	539	369	270
8	39	118	224	140	268	170	357	703	976	531	360	269
9	39	198	256	150	272	157	364	730	992	524	355	269
10	39	290	220	150	248	163	375	758	968	523	350	269
11	38	335	192	140	239	174	343	781	924	527	345	269
12	38	362	184	280	238	182	346	805	870	524	339	268
13	39	381	180	430	222	179	381	801	850	513	335	267
14	39	363	160	450	225	183	382	793	837	495	334	265
15	38	290	177	470	217	251	379	773	837	475	331	263
16	37	251	180	460	225	318	397	751	855	450	329	263
17	38	247	183	440	221	341	424	741	860	432	328	260
18	38	229	204	430	224	343	448	724	865	421	325	259
19	38	190	202	410	234	346	469	703	850	432	325	256
20	37	158	183	380	239	325	496	679	828	432	325	256
21	41	150	190	360	225	308	496	655	819	418	325	254
22	58	148	213	450	204	297	499	621	805	408	322	252
23	87	143	197	581	200	297	531	590	777	403	318	251
24	111	139	182	551	192	296	575	563	748	396	311	250
25	121	136	186	523	206	306	619	539	718	390	318	250
26	108	129	226	480	213	322	623	518	682	387	314	247
27	91	127	190	450	202	343	608	495	668	382	311	246
28	79	156	200	430	201	382	584	492	653	384	310	236
29	73	180	190	424	------	433	568	508	639	384	306	144
30	71	216	180	375	------	493	565	542	629	385	304	117
31	73	------	170	364	------	511	------	593	------	382	292	------
TOTAL	1,674	5,536	5,984	10,178	6,912	8,454	13,678	20,350	23,640	14,560	10,394	7,608
MEAN	54.0	185	193	328	247	273	456	656	788	470	335	254
MAX	121	381	256	581	363	511	623	805	992	608	373	282
MIN	36	71	152	110	192	157	343	492	629	382	292	117
AC-FT	3,320	10,980	11,870	20,190	13,710	16,770	27,130	40,360	46,890	28,880	20,620	15,090

CAL YR 1973 TOTAL 60,574 MEAN 166 MAX 381 MIN 23 AC-FT 120,100
WTR YR 1974 TOTAL 128,968 MEAN 353 MAX 992 MIN 36 AC-FT 255,800

14064300 DESCHUTES RIVER AT BENHAM FALLS, NEAR BEND, OREG.

LOCATION.--Lat 43°55'49", long 121°24'39", in SW¼NE¼ sec.16, T.19 S., R.11 E., Deschutes County, Deschutes National Forest, on right bank 0.5 mi (0.8 km) upstream from Benham Falls, 10 mi (16 km) southwest of Bend, and at mile 181.4 (291.9 km).

DRAINAGE AREA.--1,759 mi² (4,556 km²).

PERIOD OF RECORD.--April 1906 to September 1913, April to September 1914, August to December 1920, April to September 1921, February 1924 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "at West's ranch, near Lava" April 1906 to February 1909, April to September 1914. Records for January 1905 to March 1906 and October 1913 to September 1914, published under present name in WSP 370 and 394, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 4,142.10 ft (1,262.512 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1738 for history of changes prior to Nov. 20, 1958.

AVERAGE DISCHARGE.--57 years (1906-13, 1924-74), 1,414 ft³/s (40.0 m³/s), 1,024,000 acre-ft/yr (1.26 km³/yr).

EXTREMES.--Current year: Maximum discharge, 2,660 ft³/s (75.3 m³/s) June 28, gage height, 6.27 ft (1.911 m); minimum, 564 ft³/s (16.0 m³/s) Jan. 2.

Period of record: Maximum discharge, 5,000 ft³/s (142 m³/s), estimated, Nov. 27, 1909 (gage height not determined); minimum, 363 ft³/s (10.3 m³/s) Jan. 20, 1962.

REMARKS.--Records good. Flow regulated by Crane Prairie Reservoir, Crescent Lake, and Wickiup Resevoir. Many diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	648	776	724	950	760	1,150	1,610	2,430	2,640	2,430	2,110
2	1,090	637	780	609	919	752	1,180	1,600	2,430	2,640	2,450	2,130
3	1,090	630	776	647	878	732	1,150	1,610	2,460	2,610	2,450	2,150
4	1,090	637	748	648	883	728	1,110	1,630	2,510	2,610	2,460	2,180
5	1,100	641	720	640	840	728	1,050	1,670	2,550	2,600	2,460	2,210
6	1,110	613	700	644	804	740	1,060	1,750	2,580	2,580	2,460	2,210
7	1,120	655	720	648	776	752	1,340	1,910	2,580	2,580	2,430	2,210
8	1,120	679	732	651	796	732	1,370	2,120	2,540	2,580	2,390	2,220
9	1,140	704	744	641	804	708	1,380	2,190	2,510	2,600	2,360	2,250
10	1,140	764	772	630	812	700	1,410	2,220	2,540	2,560	2,280	2,270
11	1,140	860	760	630	804	708	1,420	2,190	2,570	2,460	2,260	2,300
12	1,140	923	732	644	792	744	1,410	2,160	2,590	2,360	2,250	2,300
13	1,130	932	728	662	776	748	1,390	2,180	2,610	2,310	2,250	2,300
14	1,130	937	720	716	760	768	1,410	2,190	2,620	2,310	2,250	2,280
15	1,130	941	704	824	764	812	1,430	2,190	2,640	2,350	2,230	2,260
16	1,080	896	708	919	772	878	1,420	2,190	2,640	2,360	2,210	2,250
17	1,020	832	732	937	772	941	1,430	2,130	2,640	2,360	2,240	2,250
18	1,000	812	732	955	776	959	1,440	2,100	2,640	2,370	2,360	2,250
19	995	792	728	991	796	955	1,430	2,080	2,640	2,390	2,400	2,240
20	1,000	756	736	1,110	792	941	1,440	2,070	2,630	2,330	2,370	2,200
21	1,000	728	728	1,260	792	923	1,460	2,060	2,620	2,240	2,100	2,190
22	1,030	708	724	1,260	780	901	1,490	2,060	2,630	2,220	2,090	2,190
23	977	700	736	1,210	752	883	1,510	2,060	2,640	2,240	2,080	2,190
24	748	693	736	1,160	740	883	1,520	2,070	2,640	2,270	2,070	2,200
25	716	686	732	1,180	744	883	1,550	2,060	2,650	2,300	2,090	2,180
26	697	683	720	1,140	756	892	1,590	2,160	2,640	2,320	2,070	2,150
27	690	679	748	1,100	768	914	1,650	2,210	2,640	2,350	2,080	2,140
28	679	672	784	1,070	748	959	1,680	2,270	2,650	2,350	2,070	2,140
29	665	712	812	1,020	------	1,070	1,670	2,390	2,640	2,370	2,080	2,070
30	644	744	808	964	------	1,110	1,650	2,450	2,640	2,400	2,090	1,830
31	641	------	784	955	------	1,120	------	2,450	------	2,400	2,100	------
TOTAL	30,352	22,294	23,060	27,189	22,346	26,274	42,190	64,030	77,740	75,060	69,910	65,850
MEAN	979	743	744	877	798	848	1,406	2,065	2,591	2,421	2,255	2,195
MAX	1,140	941	812	1,260	950	1,120	1,680	2,450	2,650	2,640	2,460	2,300
MIN	641	613	700	609	740	700	1,050	1,600	2,430	2,220	2,070	1,830
AC-FT	60,200	44,220	45,740	53,930	44,320	52,110	83,680	127,000	154,200	148,900	138,700	130,600

CAL YR 1973 TOTAL 571,076 MEAN 1,565 MAX 2,680 MIN 613 AC-FT 1,133,000
WTR YR 1974 TOTAL 546,295 MEAN 1,497 MAX 2,650 MIN 609 AC-FT 1,084,000

DIVERSIONS FROM DESCHUTES RIVER NEAR BEND, OREG.

The following six canals, all in Deschutes County, are the only diversions from Deschutes River between gaging stations at Benham Falls and below Bend.

14065500 ARNOLD CANAL NEAR BEND diverts at mile 174.5 (280.8 km) from right bank at head of Lava Island, in SW¼ sec.27, T.18 S., R.11 E.; water used for irrigation southeast of Bend. Records available, October 1912 to current year.

14066500 CENTRAL OREGON CANAL ABOVE PILOT BUTTE CANAL, NEAR BEND diverts at mile 169.5 (272.7 km) from right bank in NE¼ sec.13, T.18 S., R.11 E.; water used for irrigation east of Bend. Beginning Oct. 1, 1932, record obtained upstream from intake of Pilot Butte Canal. Records available October 1932 to current year.

14068500 DESCHUTES COUNTY MUNICIPAL IMPROVEMENT DISTRICT CANAL AT BEND diverts at mile 165.8 (266.8 km) from left bank in SW¼SE¼ sec.29, T.17 S., R.12 E., at Bend; water stored in Crescent Lake for Tumalo project is diverted by this canal and supplements flow in Tumalo project feed canal for irrigation near Tumalo. Records available May 1923 to current year.

14069000 NORTH UNIT MAIN CANAL NEAR BEND diverts at mile 164.8 (265.2 km) from right bank in NE¼ sec.29, T.17 S., R.12 E.; water used for irrigation near Madras. Records available October 1945 to current year.

14069500 NORTH CANAL NEAR BEND diverts at mile 164.8 (265.2 km) from right bank in NE¼ sec.29, T.17 S., R.12 E.; water used for irrigation north of Bend, mostly near Redmond. Records available June 1913 to current year.

14070000 SWALLEY CANAL NEAR BEND diverts at mile 164.8 (265.2 km) from right bank in NE¼ sec.29, T.17 S., R.12 E.; water used for irrigation north of Bend. Records available 1913 to current year.

Records of monthly discharge of these canals, published as a group, are available from October 1926 to current year; records for each canal published separately prior to 1926.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	ARNOLD CANAL	CENTRAL OREGON CANAL	DESCHUTES COUNTY MUNICIPAL IMPROVEMENT DISTRICT CANAL	NORTH UNIT MAIN CANAL	NORTH CANAL	SWALLEY CANAL	TOTAL
OCTOBER	2,230	14,600	0	12,630	12,320	3,070	44,850
NOVEMBER	581	1,920	0	0	668	387	3,560
DECEMBER	470	1,970	0	0	2,900	395	5,740
JANUARY	391	1,770	0	0	1,390	375	3,930
FEBRUARY	333	2,070	0	0	1,820	387	4,610
MARCH	373	2,030	0	0	1,780	377	4,560
APRIL	1,700	11,070	0	12,240	13,480	3,040	41,530
MAY	5,800	28,820	1,240	43,760	28,900	5,990	114,500
JUNE	6,910	34,430	3,470	58,260	33,510	7,200	143,800
JULY	7,060	35,770	2,510	50,290	35,060	6,660	137,400
AUGUST	7,090	35,860	5,670	36,620	35,090	7,340	127,700
SEPTEMBER	6,740	29,690	6,330	36,190	31,460	5,720	116,100
WTR YR 1974	39,680	200,000	19,220	249,900	198,400	40,940	748,100

14070500 DESCHUTES RIVER BELOW BEND, OREG.

LOCATION.--Lat 44°04'59", long 121°18'24", in SE¼SE¼ sec.20, T.17 S., R.12 E., Deschutes County, on right bank 0.4 mi (0.6 km) downstream from North Canal, 0.5 mi (0.8 km) north of Bend city limits, and at mile 164.4 (264.5 km).

DRAINAGE AREA.--1,899 mi^2 (4,918 km^2).

PERIOD OF RECORD.--October 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,503.96 ft (1,068.007 m) above mean sea level. Prior to Oct. 1, 1931, water-stage recorder at site 200 ft (61 m) downstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--60 years, 520 ft^3/s (14.7 m^3/s), 376,700 acre-ft/yr (464 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,460 ft^3/s (41.3 m^3/s) Jan. 21, gage height, 3.84 ft (1.170 m); maximum gage height, about 4.9 ft (1.49 m) Jan. 14 (backwater from ice); minimum discharge, 24 ft^3/s (0.68 m^3/s) Aug. 28.

Period of record: Maximum discharge, 2,820 ft^3/s (79.9 m^3/s) Dec. 27, 1964, gage height, 4.90 ft (1.494 m); maximum gage height, 5.38 ft (1.640 m) Dec. 15, 1932 (backwater from ice); minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Aug. 25, 1930.

Maximum discharge near this site since 1905, 4,820 ft^3/s (137 m^3/s) Nov. 27, 1909.

REMARKS.--Records good. Flow regulated by powerplant at Bend, Crescent Lake, Crane Prairie Reservoir, and Wickiup Reservoir (see elsewhere in this report). Six large canals and several small ditches divert water above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1318: 1916-18(M), 1926(M), 1931(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	534	445	612	851	648	1,020	259	33	63	40	68
2	30	522	455	520	830	648	1,060	212	33	49	40	88
3	30	522	502	550	788	630	996	92	33	44	35	75
4	30	528	636	540	781	624	956	77	37	66	37	75
5	30	576	612	540	746	630	886	77	38	95	37	81
6	31	485	588	550	711	630	851	59	59	155	40	86
7	32	546	606	550	672	648	1,100	46	59	135	46	81
8	32	564	618	550	678	630	1,180	47	44	109	46	83
9	32	594	618	540	697	618	1,190	46	35	127	46	95
10	32	636	648	530	704	612	1,100	46	37	135	46	102
11	32	732	654	540	704	570	1,000	44	38	155	44	119
12	32	781	630	550	690	600	645	46	44	83	44	130
13	31	781	600	570	678	606	490	44	49	70	46	135
14	31	760	552	630	642	630	375	46	47	72	46	135
15	31	767	546	690	582	678	259	46	57	77	44	143
16	31	760	546	672	576	697	266	44	77	72	44	146
17	31	700	564	392	460	746	226	40	54	52	109	143
18	30	670	368	307	385	788	233	38	47	47	226	149
19	30	680	219	320	435	802	188	40	46	40	303	143
20	28	660	191	539	450	588	175	38	43	37	356	112
21	28	640	175	1,120	485	365	195	37	37	37	229	100
22	30	590	316	1,080	678	342	208	37	34	34	88	100
23	30	565	564	1,100	648	315	212	37	43	35	55	102
24	254	555	594	1,070	485	410	201	37	66	37	52	97
25	564	470	612	1,060	430	774	222	35	83	38	57	100
26	534	325	600	1,040	430	774	255	37	52	37	50	102
27	528	335	630	988	445	781	311	35	47	38	44	135
28	516	335	660	972	510	844	351	34	70	37	40	485
29	500	335	690	924	------	893	351	35	124	40	44	660
30	490	440	678	865	------	980	307	35	83	40	46	500
31	490	------	648	858	------	1,000	------	34	------	40	55	------
TOTAL	4,580	17,388	16,765	21,769	17,171	20,501	16,809	1,780	1,549	2,096	2,435	4,570
MEAN	148	580	541	702	613	661	560	57.4	51.6	67.6	78.5	152
MAX	564	781	690	1,120	851	1,000	1,190	259	124	155	356	660
MIN	28	325	175	307	385	315	175	34	33	34	35	68
AC-FT	9,080	34,490	33,250	43,180	34,060	40,660	33,340	3,530	3,070	4,160	4,830	9,060

CAL YR 1973 TOTAL 141,881 MEAN 389 MAX 1,390 MIN 21 AC-FT 281,400
WTR YR 1974 TOTAL 127,413 MEAN 349 MAX 1,190 MIN 28 AC-FT 252,700

14073000 TUMALO CREEK NEAR BEND, OREG.

LOCATION.--Lat 44°05'16", long 121°22'18", in NW¼SE¼ sec.23, T.17 S., R.11 E., Deschutes County, on left bank 0.25 mi (0.40 km) upstream from Tumalo feed canal, 4 mi (6.4 km) northwest of Bend, and at mile 3.1 (5.0 km).

DRAINAGE AREA.--47.3 mi^{2} (123 km^{2}).

PERIOD OF RECORD.--October 1913 to December 1921, February, April to November 1922, March 1923 to current year. Published as "below Bend" 1949-50.

GAGE.--Water-stage recorder. Datum of gage is 3,566.82 ft (1,087.167 m) above mean sea level. Prior to Apr. 27, 1915, nonrecording gage and Apr. 27, 1915, to Sept. 30, 1918, water-stage recorder or nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--56 years (1913-14, 1916-21, 1923-35, 1936-74), 103 ft^{3}/s (2.917 m^{3}/s), 74,620 acre-ft/yr (92.0 hm^{3}/yr).

EXTREMES.--Current year: Maximum discharge, 735 ft^{3}/s (20.8 m^{3}/s) June 18; minimum daily, 43 ft^{3}/s (1.22 m^{3}/s) Jan. 6, 7.
Period of record: Maximum discharge, 1,140 ft^{3}/s (32.3 m^{3}/s) Nov. 9, 1968 (no flow in canal), from rating curve extended above 780 ft^{3}/s (22.1 m^{3}/s) on basis of slope-area measurement at 3.45 ft (1.052 m); minimum daily, 25 ft^{3}/s (0.71 m^{3}/s) Jan. 3, 1924.

REMARKS.--Records good. All records given herein include flow in Columbia Southern Canal, which diverts 8 mi (13 km) above station for irrigation of land near Tumalo. No flow in the canal Oct. 1 to May 5. Crater Creek Canal diverts flow of tributaries of Soda Creek into head of Tumalo Creek. Diversion above station for municipal supply of Bend began Dec. 15, 1926, and averaged 7.9 ft^{3}/s (0.22 m^{3}/s) for water year 1973.

REVISIONS (WATER YEARS).--WSP 864: 1937. WSP 1218: Drainage area. WSP 1448: 1923(M), 1927-29(M), 1935-38(M), 1942(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	123	73	68	100	69	73	115	225	406	187	88
2	57	79	69	51	97	66	75	113	255	332	177	84
3	57	71	68	51	93	68	73	115	281	305	173	81
4	57	68	68	51	93	64	73	120	334	319	165	80
5	57	60	68	51	92	66	75	135	431	338	137	79
6	59	66	66	43	90	64	73	163	349	302	161	77
7	62	64	83	43	90	64	73	191	292	272	133	76
8	60	69	77	46	87	64	73	203	276	266	120	79
9	57	93	73	50	85	62	73	198	278	296	116	82
10	57	108	71	55	83	62	71	180	292	243	113	83
11	57	150	71	62	81	62	73	172	328	200	114	79
12	59	135	71	70	79	62	73	175	382	189	109	78
13	57	100	69	80	79	60	73	157	453	212	99	77
14	55	91	66	95	79	64	73	146	488	241	96	77
15	55	89	68	120	79	85	75	135	517	266	93	75
16	53	89	71	170	79	79	75	131	545	236	92	74
17	55	83	75	190	75	77	79	128	640	265	92	73
18	53	81	69	202	77	71	63	120	675	297	95	73
19	55	77	68	199	79	68	83	115	673	303	93	73
20	60	75	71	170	77	66	81	110	585	281	87	74
21	68	73	75	155	73	66	83	107	515	271	84	75
22	66	73	73	143	73	66	91	111	486	255	85	75
23	68	71	71	133	75	66	102	123	447	218	90	74
24	64	69	79	130	69	68	100	123	418	204	93	72
25	60	69	97	125	68	69	100	158	389	195	87	72
26	59	69	89	118	68	71	95	208	329	189	86	72
27	59	71	87	111	68	73	95	238	316	190	88	74
28	66	73	89	108	69	77	93	226	335	198	90	73
29	64	75	89	106	------	77	100	208	340	212	91	73
30	62	79	95	104	------	79	108	208	384	200	86	72
31	125	------	87	104	------	75	------	212	------	196	83	------
TOTAL	1,902	2,493	2,346	3,204	2,257	2,130	2,467	4,844	12,258	7,897	3,415	2,294
MEAN	61.4	83.1	75.7	103	80.6	68.7	82.2	156	409	255	110	76.5
MAX	125	150	97	202	100	85	108	238	675	406	187	88
MIN	53	60	66	43	68	60	71	107	225	189	83	72
AC-FT	3,770	4,940	4,650	6,360	4,480	4,220	4,890	9,610	24,310	15,660	6,770	4,550

CAL YR 1973 TOTAL 50,151 MEAN 137 MAX 265 MIN 42 AC-FT 99,470
WTR YR 1974 TOTAL 47,507 MEAN 130 MAX 675 MIN 43 AC-FT 94,230

14075000 SQUAW CREEK NEAR SISTERS, OREG.

LOCATION.--Lat 44°14'02", long 121°33'57", in SE¼SW¼ sec.29, T.15 S., R.10 E., Deschutes County, on right bank 800 ft (244 m) upstream from intake of McAllister ditch, 4 mi (6 km) south of Sisters, and at mile 26.8 (43.1 km).

DRAINAGE AREA.--54.8 mi^2 (141.9 km^2).

PERIOD OF RECORD.--July 1906 to October 1918, June to August 1919, October 1919 to September 1920, May 1921 to September 1924 (no winter records), April 1925 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 3,490 ft (1,064 m), by barometer. July 1, 1906, to May 29, 1913, nonrecording gage at site 1,000 ft (305 m) downstream at different datum, below intake of McAllister ditch (records include flow in McAllister ditch). May 30, 1913, to Sept. 2, 1915, nonrecording gage and Mar. 24, 1916, to Oct. 5, 1928, water-stage recorder at site 300 ft (91 m) downstream at different datum. Oct. 6, 1928, to Nov. 7, 1967, water-stage recorder at site 200 ft (61 m) downstream at datum 2.64 ft (0.805 m) lower.

AVERAGE DISCHARGE.--62 years (1906-18, 1919-20, 1925-74), 106 ft^3/s (3.002 m^3/s), 76,800 acre-ft/yr (94.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, about 650 ft^3/s (18.4 m^3/s) Jan. 15 (backwater from ice); maximum gage height, 4.56 ft (1.390 m) Jan. 12 (ice jam); minimum discharge, 44 ft^3/s (1.25 m^3/s) Oct. 9.

Period of record: Maximum discharge since 1909, 1,980 ft^3/s (56.1 m^3/s) Dec. 23, 1964, from rating curve extended above 280 ft^3/s (7.93 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, about 8.75 ft (2.667 m), over top of gage, Nov. 22, 1909, site and datum then in use (discharge not determined); minimum discharge, 14 ft^3/s (0.396 m^3/s) Mar. 2, 1966.

REMARKS.--Records good. No regulation. A canal near mouth of Pole Creek, a tributary above station, diverts entire flow of that creek for irrigation of lands near Sisters.

REVISIONS.--WSP 1218: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	100	76	84	95	60	68	104	194	394	275	140
2	52	70	73	84	88	58	65	95	221	345	269	134
3	50	64	72	78	86	57	64	95	230	324	266	131
4	49	59	70	74	82	57	64	102	345	345	266	131
5	49	58	68	66	81	55	67	114	458	369	259	126
6	55	64	74	65	78	57	65	140	366	345	240	120
7	53	66	124	65	78	55	62	170	310	310	221	117
8	50	79	95	65	71	57	62	185	269	310	209	114
9	49	144	86	68	70	57	62	179	259	320	203	117
10	49	168	82	72	68	53	60	158	272	282	197	117
11	49	234	80	78	67	53	61	152	304	243	200	106
12	49	170	79	84	65	54	61	149	345	237	194	102
13	48	133	78	98	67	54	61	131	390	253	182	97
14	47	114	73	120	65	61	61	123	434	278	173	95
15	47	112	86	450	64	78	62	112	450	298	170	93
16	47	110	96	478	64	74	64	104	466	278	170	91
17	47	90	106	324	62	71	65	97	490	334	170	91
18	46	80	89	352	68	68	68	93	506	355	170	91
19	47	76	84	304	70	67	68	88	506	359	164	91
20	55	78	112	234	65	64	67	86	462	352	152	88
21	73	82	124	209	62	62	70	88	422	345	146	88
22	61	82	102	188	61	62	78	93	422	324	152	88
23	59	80	93	170	61	61	84	102	414	291	155	88
24	55	76	116	155	60	62	82	106	402	278	155	84
25	53	73	138	140	58	65	79	155	387	275	149	82
26	52	78	114	128	60	67	74	206	331	266	155	82
27	52	79	114	120	60	68	73	221	338	266	152	79
28	62	82	108	112	60	68	74	206	345	275	155	78
29	55	80	108	104	------	71	79	191	345	288	152	76
30	53	79	96	99	------	73	91	182	383	288	149	76
31	166	------	94	109	------	68	------	182	------	288	143	------
TOTAL	1,733	2,860	2,910	4,777	1,936	1,937	2,061	4,209	11,066	9,515	5,813	3,013
MEAN	55.9	95.3	93.9	154	69.1	62.5	68.7	136	369	307	188	100
MAX	166	234	138	478	95	78	91	221	506	394	275	140
MIN	46	58	68	65	58	53	60	86	194	237	143	76
AC-FT	3,440	5,670	5,770	9,480	3,840	3,840	4,090	8,350	21,950	18,870	11,530	5,980

CAL YR 1973 TOTAL 29,226 MEAN 80.1 MAX 234 MIN 42 AC-FT 57,970
WTR YR 1974 TOTAL 51,830 MEAN 142 MAX 506 MIN 46 AC-FT 102,800

PEAK DISCHARGE (BASE, 470 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-15	-	-	About 650 cfs	6-18	0030	3.53	574
6- 4	2130	3.38	518				

14076500 DESCHUTES RIVER NEAR CULVER, OREG.

LOCATION.—Lat 44°29'36", long 121°19'12", in NW¼SE¼ sec.29, T.12 S., R.12 E., Jefferson County, on right bank 2.5 mi (4.0 km) downstream from Squaw Creek, 6.0 mi (9.7 km) southwest of Culver, and at mile 120.6 (194.0 km).

DRAINAGE AREA.—2,705 mi² (7,006 km²).

PERIOD OF RECORD.—July 1952 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,980 ft (603 m) above mean sea level (river-profile survey). July 14, 1952, to Sept. 30, 1961, at site 4.1 mi (6.6 km) downstream at different datum.

AVERAGE DISCHARGE.—22 years, 908 ft³/s (25.7 m³/s), 657,800 acre-ft/yr (811 hm³).

EXTREMES.—Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Jan. 15, gage height, 5.69 ft (1.734 m); minimum, 524 ft³/s (14.8 m³/s) Oct. 17-19.

Period of record: Maximum discharge, 6,680 ft³/s (189 m³/s) Dec. 24, 1964, gage height, 10.00 ft (3.048 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement of peak flow; minimum, 418 ft³/s (11.8 m³/s) July 7, 8, 1964.

REMARKS.—Records excellent. Slight regulation by Crescent Lake and Crane Prairie and Wickiup Reservoirs (see elsewhere in this report). Many diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	1,340	1,030	1,340	1,540	1,220	1,620	859	569	953	613	550
2	539	1,170	995	1,170	1,510	1,320	1,650	800	580	871	595	562
3	539	1,130	995	1,160	1,470	1,310	1,660	748	611	782	591	577
4	539	1,130	1,140	1,150	1,500	1,300	1,670	654	643	760	588	573
5	542	1,160	1,240	1,160	1,440	1,290	1,600	634	942	830	586	566
6	543	1,240	1,230	1,090	1,380	1,310	1,540	639	963	881	586	573
7	543	1,160	1,300	1,170	1,350	1,300	1,590	637	859	905	643	578
8	549	1,250	1,350	1,140	1,320	1,310	1,630	610	775	852	568	578
9	545	1,340	1,330	1,140	1,370	1,300	1,850	576	733	865	559	575
10	546	1,430	1,340	1,120	1,400	1,280	1,870	567	726	842	557	586
11	545	1,540	1,360	1,120	1,400	1,270	1,680	556	748	781	556	588
12	538	1,620	1,330	1,200	1,340	1,200	1,600	546	803	734	554	603
13	536	1,530	1,310	1,430	1,370	1,230	1,160	546	874	672	553	616
14	537	1,510	1,240	1,470	1,360	1,260	1,100	543	957	661	555	625
15	534	1,490	1,230	1,840	1,270	1,380	924	539	1,010	699	555	624
16	534	1,520	1,240	2,200	1,210	1,420	860	540	1,010	704	553	630
17	528	1,440	1,260	1,730	1,200	1,460	820	543	1,080	697	551	635
18	527	1,390	1,200	1,440	1,020	1,490	779	539	1,200	730	589	631
19	527	1,360	877	1,470	1,040	1,440	777	536	1,190	774	720	635
20	531	1,380	791	1,340	1,090	1,460	736	539	1,170	767	789	630
21	531	1,350	816	1,760	1,120	1,080	727	534	1,070	734	830	605
22	536	1,310	829	1,990	1,240	971	746	532	1,020	721	710	592
23	542	1,290	1,100	1,960	1,360	950	781	531	1,040	709	608	590
24	533	1,230	1,300	1,920	1,330	925	760	531	1,020	680	571	590
25	832	1,220	1,420	1,860	1,100	1,140	762	530	1,020	662	559	587
26	1,080	1,080	1,380	1,840	1,040	1,360	803	530	925	619	561	589
27	1,080	963	1,370	1,770	1,040	1,360	802	570	831	604	562	587
28	1,080	934	1,420	1,720	1,070	1,390	871	612	846	602	550	614
29	1,090	958	1,420	1,660	------	1,450	908	604	845	623	547	1,060
30	1,060	944	1,410	1,600	------	1,530	894	590	894	637	542	1,070
31	1,070	------	1,390	1,570	------	1,600	------	586	------	636	541	------
TOTAL	20,196	38,409	37,643	46,530	35,930	40,306	35,330	18,301	26,954	22,987	18,444	18,824
MEAN	651	1,280	1,214	1,501	1,283	1,300	1,178	590	898	742	595	627
MAX	1,090	1,620	1,420	2,200	1,540	1,600	1,870	859	1,200	953	830	1,070
MIN	527	934	791	1,090	1,020	925	727	530	569	602	541	550
AC-FT	40,060	76,180	74,660	92,290	71,270	79,950	70,080	36,300	53,460	45,590	36,580	37,340

CAL YR 1973 TOTAL 350,632 MEAN 961 MAX 2,090 MIN 508 AC-FT 695,500
WTR YR 1974 TOTAL 359,854 MEAN 986 MAX 2,200 MIN 527 AC-FT 713,800

14078000 BEAVER CREEK NEAR PAULINA, OREG.

LOCATION.--Lat 44°09'30", long 119°55'20", in NE¼ sec.26, T.16 S., R.23 E., Crook County, on right bank 0.7 mi (1.1 km) downstream from Paulina Creek, 1.7 mi (2.7 km) downstream from Wolf Creek, 2.7 mi (4.3 km) northeast of Paulina, and at mile 10.0 (16.1 km).

DRAINAGE AREA.--450 mi^2 (1,170 km^2), approximately.

PERIOD OF RECORD.--October 1942 to current year. Prior to October 1945 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 3,690 ft (1,120 m), by barometer. Oct. 1, 1942, to July 7, 1965, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--32 years, 89.4 ft^3/s (2.53 m^3/s), 64,770 acre-ft/yr (79.9 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,590 ft^3/s (45.0 m^3/s) Dec. 7, 21, gage height, 5.45 ft (1.661 m); minimum, 0.15 ft^3/s (0.004 m^3/s) Sept. 5-7, 11-14.

Period of record: Maximum discharge, 12,800 ft^3/s (362 m^3/s) Dec. 22, 1964, gage height, 14.20 ft (4.328 m), from floodmark, present datum, from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope-area measurement of peak flow; no flow Oct. 13-29, 1945.

REMARKS.--Records fair. No regulation. Diversions for irrigation above station. Two small ditches divert above station for irrigation below.

REVISIONS (WATER YEARS).--WSP 1348: Drainage area. WSP 1448: 1946, 1948, 1949-50(M), 1951-52.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	14	587	108	164	276	420	243	11	.42	3.3	.72
2	3.3	14	364	75	118	279	385	252	9.3	.42	3.6	.62
3	3.0	15	228	77	101	555	330	233	8.1	.36	2.8	.62
4	3.0	15	164	57	110	486	318	213	7.3	.42	2.6	.62
5	2.6	17	140	54	88	462	339	208	7.3	.48	2.6	.24
6	2.2	19	132	42	71	462	416	223	8.5	.48	2.8	.15
7	1.6	20	1,110	43	73	462	490	218	8.1	.48	2.4	.19
8	1.4	22	874	57	78	560	402	195	7.3	.82	2.4	.30
9	1.1	52	413	64	81	582	380	174	6.5	.72	2.2	.30
10	.82	107	276	71	81	578	320	140	5.4	.62	2.4	.24
11	.72	114	225	86	82	533	265	110	.54	.72	2.4	.24
12	3.0	360	186	110	87	916	220	91	.36	.82	2.6	.15
13	4.4	285	166	155	74	1,290	190	84	.24	.82	2.8	.19
14	4.4	152	138	228	91	844	178	71	.30	.82	2.8	.15
15	4.4	136	166	360	118	976	190	59	.36	.82	3.0	.24
16	4.4	136	208	1,210	381	760	225	53	.30	.82	2.8	.24
17	4.1	116	672	862	252	551	260	48	.30	.72	2.8	.24
18	5.1	116	609	892	213	450	320	52	.36	.62	2.8	.36
19	5.4	104	306	660	339	409	380	60	.36	.54	2.6	.42
20	6.5	91	351	500	249	374	345	50	.36	.62	2.6	.36
21	6.9	82	1,370	300	200	339	290	44	.36	.54	2.8	.36
22	7.7	78	654	264	150	321	265	33	.48	1.2	2.8	.42
23	8.1	71	388	223	120	321	300	28	.42	3.3	3.0	.36
24	8.5	73	267	186	118	303	400	26	.36	3.0	3.0	.36
25	9.3	84	252	188	128	294	440	27	.36	3.0	3.0	.48
26	9.7	91	168	154	158	282	360	22	.36	3.3	3.0	.82
27	11	101	198	142	174	279	270	26	.36	3.3	3.0	1.1
28	11	225	233	134	164	291	235	27	.36	3.3	3.0	.94
29	12	533	190	124	------	318	213	26	.36	3.3	3.6	.82
30	13	636	156	110	------	339	213	21	.42	3.3	2.6	.94
31	13	------	126	134	------	364	------	14	------	3.3	1.8	------
TOTAL	175.24	3,879	11,317	7,670	4,063	15,256	9,359	3,071	86.12	43.38	85.9	13.19
MEAN	5.65	129	365	247	145	492	312	99.1	2.87	1.40	2.77	.44
MAX	13	636	1,370	1,210	381	1,290	490	252	11	3.3	3.6	1.1
MIN	.72	14	126	42	71	276	178	14	.24	.36	1.8	.15
AC-FT	348	7,690	22,450	15,210	8,060	30,260	18,560	6,090	171	86	170	26

CAL YR 1973 TOTAL 25,476.81 MEAN 69.8 MAX 1,370 MIN .16 AC-FT 50,530
WTR YR 1974 TOTAL 55,018.83 MEAN 151 MAX 1,370 MIN .15 AC-FT 109,100

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1300	5.45	1,590	1-16	2230	5.09	1,330
12-17	1930	4.52	982	3-12	2400	5.13	1,440
12-21	0530	5.45	1,590				

14080400 PRINEVILLE RESERVOIR NEAR PRINEVILLE, OREG.

LOCATION.--Lat 44°06'50", long 120°46'30", in SW¼NW¼ sec.11, T.17 S., R.16 E., Crook County, at right end of Prineville Dam on Crooked River, 13.8 mi (22.2 km) south of Prineville, and at mile 72.5 (116.7 km).

DRAINAGE AREA.--2,700 mi² (6,990 km²) approximately, of which 500 mi² (1,300 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Aug. 13, 1969, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 159,000 acre-ft (196 hm³) Apr. 23, elevation, 3,236.82 ft (986.583 m); minimum, 87,700 acre-ft (108 hm³) Nov. 26, elevation, 3,208.67 ft (978.003 m).

Period of record: Maximum contents observed, 165,800 acre-ft (204 hm³) Dec. 27, 1964, elevation, 3,238.95 ft (987.232 m); minimum observed, 70,600 acre-ft (87.0 hm³) Oct. 21, Nov. 1, 1968, elevation, 3,199.65 ft (975.253 m).

REMARKS.--Reservoir is formed by earthfill dam with ungated concrete spillway and concrete outlet tunnel controlled by two 4-ft (1.2 m) by 6-ft (1.8 m) regulating gates. Storage began in December 1960. Total capacity at elevation 3,234.80 ft (985.967 m), crest of spillway, is 154,700 acre-ft (191 hm³), of which 152,800 acre-ft (188 hm³) is active storage above 3,114.00 ft (949.147 m), proposed minimum pool. Reservoir used for flood control, irrigation, and recreation. Figures given herein represent active storage.

COOPERATION.--Gage inspected and capacity table furnished by Bureau of Reclamation.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

3,199	69,400	3,220	112,600
3,200	71,200	3,230	138,700
3,205	80,400	3,235	153,400
3,215	101,100	3,239	165,900

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91,500	91,200	96,900		91,100	103,200	151,300	153,100	153,400		129,600	115,800
2	91,400	91,200	99,400	90,700	91,600	104,000	152,700	152,400	152,900		129,200	115,300
3	91,400	91,200	100,800		91,900	104,700	152,400	152,400	152,900		128,700	114,700
4	91,300	91,200	102,000		92,200	105,000	151,300	152,400	152,800		128,400	114,400
5	91,200	91,300	102,800		92,400	105,300	150,800	152,300	152,900		127,800	114,000
6	91,200	91,600	103,700		92,400	105,800	150,200	152,200	153,000		127,200	113,500
7	91,200	91,600	107,400	90,900	92,400	106,200	150,400	152,200	153,000		126,800	113,100
8	91,100	91,800	112,700		92,800	108,900	150,600	152,100	153,000		126,300	112,700
9	91,100	92,100	115,200	90,900	92,900	106,900	150,700	152,100	152,800		125,900	112,300
10	91,000	92,800	116,100	90,900	93,200	107,200	151,000	152,100	152,500		125,400	111,800
11	90,900	94,100	115,400	91,100	93,200	107,500	151,000	152,200	152,400		125,000	111,300
12	90,800	96,900	113,800	91,100	93,200	107,900	151,000	152,400	152,000		124,700	110,700
13	90,800	99,000	111,500	91,000	93,300	108,400	151,300	152,500	151,700		123,800	110,200
14	90,800	100,400	109,200	91,200	93,400	109,200	151,900	154,000	151,200		123,600	109,800
15	90,800	100,800	106,700	95,000	93,600	111,700	153,000		150,800	137,200	123,200	109,000
16	90,800	100,300	105,800	103,800	94,500	116,100	154,100	152,400	150,400	136,600	122,800	108,700
17	90,800	99,800	106,200	108,200	96,000	120,900	154,000		150,100	136,200	122,400	108,300
18	90,800	98,900	106,200	109,300	96,300	125,500	155,600		149,700	135,700		107,900
19	90,700	98,000	104,800	111,600	91,300	128,200	157,900		149,200	135,400		107,500
20	90,700	96,700		111,700	98,300	129,800	158,300	152,200	148,800	134,900		107,000
21	90,800	95,100	103,000	110,200	99,000	130,800	158,200		148,300	134,400		106,600
22	90,800	93,400		108,400	99,500	131,800	158,600	152,100	148,000	134,000		106,300
23	90,800	91,800		106,400	100,100	132,600	159,000		147,600	133,700		106,000
24	90,800	90,100		103,300	100,500	133,400			147,000	133,200		105,700
25	90,800	88,300		101,500	101,000	135,000	157,900		146,400	131,200		105,200
26	90,900	87,700	98,800	99,400	101,500	136,500	157,700		146,000	132,300	118,500	104,700
27	90,900	88,100		97,900	102,300	138,800	156,800	152,500	145,600	131,800		104,500
28	91,000	88,600	94,600	95,800	102,600	140,200	155,800	152,800	145,200	131,400		104,200
29	91,000	90,400		93,800	-------	141,300	155,100	152,800	144,900	131,100	117,100	103,800
30	91,100	93,300		91,600	-------	146,800	154,000	152,000	144,400	130,600	116,600	103,400
31	91,200	-------	92,300	90,600	-------	149,800	-------	153,300	-------	130,000	116,100	-------
MAX	91,500	100,800			102,600	149,800			153,400			115,800
MIN	90,700	87,700			91,100	103,200			144,400			103,400
(†)	3,210.40	3,211.40	3,210.91	3,210.09	3,215.70	3,233.80	3,235.18	3,234.97	3,231.99	3,226.85	3,221.45	3,216.03
(‡)	-500	+2,100	-1,000	-1,700	+12,000	+47,200	+4,200	-700	-8,900	-14,400	-13,900	-12,700

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

14080500 CROOKED RIVER NEAR PRINEVILLE, OREG.

LOCATION.--Lat 44°06'50", long 120°47'40", in SW¼NE¼ sec.10, T.17 S., R.16 E., Crook County, on right bank 0.4 mi (0.6 km) downstream from Prineville Dam, 13.6 mi (21.9 km) south of Prineville, and at mile 72.1 (116.0 km).

DRAINAGE AREA.--2,700 mi² (7,000 km²), approximately, of which 500 mi² (1,300 km²) is probably noncontributing.

PERIOD OF RECORD.--November 1908 to September 1914, March 1941 to current year. Published as "near Prineville" 1908-12, as "at Hoffman's ranch, near Prineville" 1913-14, and as "above Hoffman Dam, near Prineville" March 1941 to September 1960. The estimate of monthly mean discharge for October 1908, published in WSP 370, has been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 3,070.85 ft (935.995 m) above mean sea level (levels by Bureau of Reclamation.) Prior to September 1914, nonrecording gage at several sites from 9 mi (14 km) to 23 mi (37 km) downstream at various datums. Mar. 26, 1941, to Apr. 23, 1961, water-stage recorder at site 5.5 mi (8.8 km) downstream at different datum.

AVERAGE DISCHARGE.--24 years (1909-14, 1941-60), 378 ft³/s (10.7 m³/s), 273,700 acre-ft/yr (337 hm³/yr); 14 years (1961-74), 304 ft³/s (8.609 m³/s), 220,200 acre-ft/yr (272 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) Apr. 3, gage height, 6.73 ft (2.051 m); minimum, 16 ft³/s (0.45 m³/s) Nov. 8.

Period of record: Maximum discharge, 8,410 ft³/s (238 m³/s) Mar. 26, 1952, gage height, 8.2 ft (2.50 m), from floodmark, site and datum then in use; no flow Aug. 13-21, 1959, Jan. 3-5, 1961.

REMARKS.--Records good. Flow completely regulated since December 1960 by Prineville Reservoir (see station 14080400). Diversions for irrigation above station. Discharge not adjusted for storage or release from Prineville Reservoir as evaporation from reservoir at times exceeds natural flow.

REVISIONS (WATER YEARS).--WSP 1448: 1909-13, 1914(M), drainage area (at sites prior to Apr. 24, 1961). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	35	38	518	199	132	1,780	1,230	291	247	222	210
2	57	35	38	381	199	132	1,850	1,250	291	247	224	210
3	50	34	38	154	199	132	1,990	1,270	289	247	224	210
4	44	34	38	154	201	132	2,060	1,280	276	244	222	210
5	44	34	38	154	253	132	1,810	1,280	247	247	224	210
6	45	34	38	154	306	132	1,430	1,290	249	247	224	210
7	44	34	38	154	176	132	1,150	1,300	249	247	224	210
8	44	26	39	154	176	132	1,150	1,310	249	247	224	210
9	43	38	39	154	176	132	1,150	1,310	249	244	222	210
10	43	85	473	154	203	133	1,150	1,300	247	242	222	210
11	42	85	1,050	154	256	133	1,150	1,280	249	242	222	210
12	42	85	1,470	154	256	133	1,150	1,250	249	242	220	210
13	42	86	1,700	154	258	133	1,070	1,220	249	242	220	210
14	42	86	1,690	154	258	133	1,010	1,140	251	240	220	210
15	42	324	1,690	154	184	133	1,070	1,010	249	231	220	210
16	41	685	1,040	584	57	135	1,180	835	249	214	220	210
17	41	825	632	1,550	57	135	1,220	525	249	214	218	210
18	40	825	1,630	1,900	58	349	1,430	525	249	216	220	210
19	40	820	1,630	1,900	58	1,130	1,600	525	251	216	220	210
20	40	905	1,630	1,910	58	1,130	1,630	480	249	218	220	210
21	39	1,080	1,670	1,910	58	1,130	1,630	434	249	218	220	205
22	39	1,070	1,730	1,900	58	1,210	1,690	354	249	218	220	200
23	38	1,070	1,730	1,890	58	1,370	1,760	279	249	220	222	200
24	38	1,070	1,720	1,890	58	1,370	1,790	279	247	218	222	195
25	38	1,070	1,720	1,880	58	1,370	1,810	279	247	218	220	190
26	37	438	1,710	1,740	58	1,370	1,800	279	247	220	222	190
27	37	36	1,710	1,530	58	1,380	1,760	281	247	220	222	190
28	37	36	1,390	1,520	97	1,470	1,710	281	249	222	224	185
29	36	37	1,160	1,520	------	1,660	1,670	216	247	222	209	180
30	36	38	1,160	1,510	------	1,660	1,510	242	247	220	210	180
31	35	------	795	1,000	------	1,710	------	291	------	222	210	------
TOTAL	1,293	11,060	31,474	29,035	4,091	20,565	45,160	24,825	7,609	7,152	6,833	6,115
MEAN	41.7	369	1,015	937	146	663	1,505	801	254	231	220	204
MAX	57	1,080	1,730	1,910	306	1,710	2,060	1,310	291	247	224	210
MIN	35	26	38	154	57	132	1,010	216	247	214	209	180
AC-FT	2,560	21,940	62,430	57,590	8,110	40,790	89,570	49,240	15,090	14,190	13,550	12,130

CAL YR 1973 TOTAL 90,324 MEAN 247 MAX 1,730 MIN 26 AC-FT 179,200
WTR YR 1974 TOTAL 195,212 MEAN 535 MAX 2,060 MIN 26 AC-FT 387,200

NOTE.--No gage-height record Aug. 29 to Sept. 30.

14087400 CROOKED RIVER BELOW OPAL SPRINGS, NEAR CULVER, OREG.

LOCATION.--Lat 44°29'33", long 121°17'50", in NW¼NE¼ sec.33, T.12 S., R.12 E., Jefferson County, on right bank 0.2 mi (0.3 km) downstream from Opal Springs, 4.8 mi (7.7 km) southwest of Culver, and at mile 6.7 (10.8 km).

DRAINAGE AREA.--4,300 mi^2 (11,100 km^2), approximately, of which 500 mi^2 (1,300 km^2) is probably noncontributing.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,953.60 ft (595.457 m) above mean sea level (Portland General Electric Co. bench mark).

AVERAGE DISCHARGE.--13 years, 1,555 ft^3/s (44.0 m^3/s), 1,127,000 acre-ft/yr (1.39 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,980 ft^3/s (113 m^3/s) Apr. 5, gage height, 6.38 ft (1.945 m); minimum, 1,130 ft^3/s (32.0 m^3/s) June 3.

Period of record: Maximum discharge, 6,660 ft^3/s (189 m^3/s) Dec. 24, 1964, gage height, 9.36 ft (2.853 m); minimum, 912 ft^3/s (25.8 m^3/s) Aug. 13-15, 1973.

REMARKS.--Records excellent. Flow regulated since December 1960 by Prineville Reservoir (see station 14080400) and Ochoco Reservoir, capacity, 47,500 acre-ft (58.6 hm^3). Many diversions for irrigation above station. Practically all of the summer flow comes from Opal Springs and other springs within 15 mi (24 km) above station. Simultaneous records (1961-63) at former gaging station 5.6 mi (9.0 km) downstream indicated over 15 percent increase to summer flow from springs below this station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.330	1.330	1.470	2.160	2.260	1.400	3.680	2.970	1.410	1.390	1.330	1.310
2	1.370	1.330	1.470	1.920	1.610	1.470	3.740	2.770	1.390	1.390	1.340	1.320
3	1.360	1.320	1.440	1.770	1.580	1.510	3.790	2.770	1.400	1.380	1.340	1.340
4	1.390	1.310	1.410	1.490	1.570	1.510	3.910	2.740	1.390	1.370	1.350	1.360
5	1.360	1.340	1.370	1.450	1.560	1.520	3.970	2.720	1.390	1.390	1.350	1.360
6	1.380	1.360	1.360	1.410	1.590	1.520	3.680	2.690	1.370	1.380	1.340	1.350
7	1.380	1.330	1.360	1.440	1.660	1.520	3.270	2.680	1.370	1.380	1.330	1.360
8	1.370	1.340	1.550	1.450	1.510	1.510	3.060	2.640	1.370	1.400	1.340	1.370
9	1.350	1.380	1.460	1.450	1.510	1.510	2.890	2.660	1.350	1.440	1.340	1.390
10	1.380	1.410	1.420	1.460	1.500	1.510	2.680	2.630	1.360	1.410	1.340	1.380
11	1.370	1.340	1.760	1.460	1.520	1.510	2.680	2.590	1.340	1.430	1.340	1.380
12	1.370	1.450	2.440	1.480	1.590	1.470	2.900	2.530	1.350	1.450	1.340	1.410
13	1.380	1.500	2.860	1.510	1.580	1.420	2.640	2.490	1.330	1.420	1.330	1.440
14	1.370	1.450	3.050	1.540	1.580	1.430	2.750	2.420	1.320	1.400	1.350	1.440
15	1.370	1.430	3.060	1.560	1.580	1.510	2.690	2.330	1.320	1.400	1.350	1.450
16	1.370	1.580	3.070	1.650	1.550	1.590	2.740	2.220	1.340	1.390	1.330	1.460
17	1.370	2.050	2.330	2.160	1.370	1.640	2.900	2.010	1.360	1.360	1.330	1.440
18	1.370	2.190	2.180	3.050	1.360	1.650	2.810	1.760	1.360	1.340	1.330	1.430
19	1.360	2.180	3.040	3.520	1.360	1.960	3.020	1.750	1.370	1.380	1.330	1.430
20	1.350	2.190	3.070	3.540	1.380	2.670	3.120	1.760	1.380	1.390	1.340	1.430
21	1.360	2.300	3.150	3.430	1.390	2.700	3.100	1.700	1.360	1.370	1.340	1.430
22	1.380	2.440	3.270	3.370	1.390	2.740	3.130	1.620	1.380	1.380	1.340	1.420
23	1.430	2.450	3.250	3.360	1.380	2.850	3.220	1.560	1.380	1.360	1.340	1.430
24	1.430	2.450	3.190	3.320	1.350	2.980	3.270	1.450	1.390	1.350	1.330	1.420
25	1.400	2.450	3.190	3.310	1.350	2.980	3.300	1.460	1.370	1.330	1.340	1.400
26	1.360	2.440	3.180	3.300	1.380	2.970	3.410	1.430	1.360	1.330	1.350	1.400
27	1.340	2.120	3.160	3.110	1.380	2.980	3.430	1.470	1.390	1.320	1.350	1.420
28	1.330	1.400	3.170	2.950	1.390	2.990	3.400	1.450	1.390	1.330	1.350	1.410
29	1.320	1.390	2.830	2.960	------	3.160	3.350	1.430	1.380	1.340	1.350	1.410
30	1.320	1.430	2.650	2.930	------	3.480	3.230	1.390	1.380	1.360	1.320	1.430
31	1.330	------	2.620	2.930	------	3.620	------	1.320	------	1.330	1.330	------
TOTAL	42.350	51.710	74.830	72.400	42.230	65.280	96.460	65.450	41.050	42.690	41.510	42.020
MEAN	1.366	1.724	2.414	2.335	1.508	2.106	3.215	2.111	1.368	1.377	1.339	1.401
MAX	1.430	2.450	3.270	3.540	2.260	3.620	3.970	2.970	1.410	1.450	1.350	1.460
MIN	1.320	1.320	1.360	1.410	1.350	1.400	2.640	1.320	1.320	1.320	1.320	1.310
AC-FT	84.000	102.600	148.400	143.600	83.760	129.500	191.300	129.800	81.420	84.680	82.340	83.350

CAL YR 1973 TOTAL 514.500 MEAN 1.410 MAX 3.270 MIN 1.160 AC-FT 1.021.000

WTR YR 1974 TOTAL 677.980 MEAN 1.857 MAX 3.970 MIN 1.310 AC-FT 1.345.000

14088000 LAKE CREEK NEAR SISTERS, OREG.

LOCATION.--Lat 44°25'35", long 121°43'30", in NE¼SW¼ sec.24, T.13 S., R.8 E., Deschutes County, on left bank 300 ft (91 m) downstream from Suttle Lake and 13 mi (21 km) northwest of Sisters.

DRAINAGE AREA.--22.2 mi^2 (57.5 km^2).

PERIOD OF RECORD.--June to November 1911, March to September 1912, May to October 1913, April 1915 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 3,431.68 ft (1,045.976 m) above mean sea level. Prior to Apr. 1, 1916, nonrecording gage at two sites 400 ft (122 m) upstream at different datums. Apr. 1, 1916, to Oct. 12, 1928, nonrecording gage or water-stage recorder at site 640 ft (195 m) downstream at different datum. Oct. 13, 1928, to Aug. 13, 1967, water-stage recorder at site 600 ft (183 m) downstream at datum 1.61 ft (0.491 m) lower.

AVERAGE DISCHARGE.--59 years (1915-74), 52.7 ft^3/s (1.49 m^3/s), 38,180 acre-ft/yr (47.1 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 369 ft/^{3}s (10.5 m^3/s) Jan. 18, gage height, 4.23 ft (1.289 m) minimum, 30 ft^3/s (0.850 m^3/s) Oct. 1.

Period of record: Maximum discharge not determined, Dec. 23, 1964; maximum daily discharge, 500 ft^3/s (14.2 m^3/s) Dec. 23, 1964; minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Nov. 4, 5, 1940; minimum daily, 8 ft^3/s (0.23 m^3/s) Nov. 5, 1940, Oct. 6, 1942.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1124: 1943, 1947. WSP 1218: Drainage area. WSP 1448: 1916(M), 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	46	60	110	109	72	86	88	96	74	45	38
2	31	37	59	102	95	68	85	92	105	68	45	37
3	31	35	59	97	89	67	81	94	115	63	45	37
4	32	44	57	90	98	64	77	96	140	65	45	38
5	32	56	55	86	91	71	77	99	160	64	44	36
6	33	56	54	82	84	64	77	102	205	61	42	37
7	33	41	62	77	78	61	74	108	201	61	41	37
8	32	45	57	74	76	57	70	113	183	61	40	37
9	32	44	59	71	74	55	70	127	164	61	41	36
10	32	41	63	68	71	55	77	140	151	58	43	36
11	31	41	69	66	68	57	76	141	141	57	41	35
12	31	47	68	73	68	62	73	140	138	56	41	35
13	31	49	73	82	67	65	68	141	138	55	40	35
14	31	54	68	89	68	71	68	138	143	55	40	35
15	32	57	67	128	66	64	69	134	147	53	41	35
16	31	60	65	192	70	57	68	125	148	52	41	35
17	32	57	71	293	68	58	68	116	151	51	41	35
18	32	61	70	339	73	57	69	108	150	52	40	35
19	32	60	75	333	85	57	69	100	147	51	40	35
20	35	67	82	322	77	59	66	95	138	50	40	34
21	36	70	85	285	77	60	61	87	133	49	40	34
22	37	65	88	225	78	61	70	85	129	48	40	34
23	41	61	92	186	73	58	78	87	117	48	40	34
24	39	63	97	165	68	58	81	90	105	47	39	34
25	38	64	97	155	67	59	85	93	102	46	40	34
26	35	57	98	144	72	60	86	99	93	46	40	33
27	34	55	116	132	73	62	89	109	86	46	39	32
28	37	55	114	117	75	71	85	100	82	45	39	33
29	36	61	129	94	------	76	84	98	78	47	39	34
30	34	61	120	110	------	82	85	94	77	48	39	34
31	46	------	116	108	------	79	------	92	------	47	38	------
TOTAL	1,050	1,610	2,445	4,495	2,158	1,967	2,272	3,331	3,963	1,685	1,269	1,054
MEAN	33.9	53.7	78.9	145	77.1	63.5	75.7	107	132	54.4	40.9	35.1
MAX	46	70	129	339	109	82	89	141	205	74	45	38
MIN	31	35	54	66	66	55	61	85	77	45	38	32
AC-FT	2,080	3,190	4,850	8,920	4,280	3,900	4,510	6,610	7,860	3,340	2,520	2,090

CAL YR 1973 TOTAL 16,723 MEAN 45.8 MAX 129 MIN 30 AC-FT 33,170
WTR YR 1974 TOTAL 27,299 MEAN 74.8 MAX 339 MIN 31 AC-FT 54,150

14091500 METOLIUS RIVER NEAR GRANDVIEW, OREG.

LOCATION.--Lat 44°37'33", long 121°28'55", in SE¼SW¼ sec.12, T.11 S., R.10 E., Jefferson County, Deschutes National Forest, on right bank 1.0 mi (1.6 km) upstream from maximum controlled pool of Lake Billy Chinook, 15.0 mi (24.1 km) northwest of Culver, and at mile 13.6 (21.9 km).

DRAINAGE AREA.--316 mi^2 (818 km^2), at cableway 1.0 mi (1.6 km) downstream, where all discharge measurements are made. Hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--April 1910 to February 1912 (gage heights and discharge measurements only), March 1912 to December 1913, October 1921 to current year. Published as "at Hubbard's ranch, near Sisters" 1910, and as "at Hubbard's ranch, near Grandview" 1910-13.

GAGE.--Water-stage recorder. Datum of gage is 1,974.36 ft (601.785 m) above mean sea level (levels by Portland General Electric Co.). Prior to Dec. 31, 1913, nonrecording gage at site 2.3 mi (3.7 km) upstream at different datum. Oct. 1, 1921, to May 3, 1949, nonrecording gage and May 4, 1949, to June 18, 1963, water-stage recorder at site 2.7 mi (4.3 km) downstream at datum 64 ft (19.5 m) lower.

AVERAGE DISCHARGE.--54 years (1912-13, 1921-74), 1,495 ft^3/s (42.34 m^3/s), 1,083,000 acre-ft/yr (1.34 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,370 ft^3/s (124 m^3/s) Jan. 15, gage height, 4.48 ft (1. m); minimum, 1,280 ft^3/s (36.2 m^3/s) Oct. 18, 19.
Period of record: Maximum discharge, 7,530 ft^3/s (213 m^3/s) Dec. 24, 1964, gage height, 6.81 ft (2.076 m); minimum, 1,080 ft^3/s (30.6 m^3/s) Feb. 17, 1932, Oct. 2-31, Nov. 6, 7, 10-14, 1942.

REMARKS.--Records excellent. No regulation. Many small diversions for irrigation above station. Stream is spring fed. Records herein are for measuring site. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1448: 1913.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.320	1.540	1.520	1.750	2.030	1.710	1.980	1.750	1.830	2.100	1.820	1.640
2	1.310	1.400	1.480	1.690	1.910	1.700	1.940	1.740	1.870	2.010	1.800	1.630
3	1.310	1.360	1.470	1.660	1.860	1.670	1.890	1.740	1.940	1.970	1.800	1.630
4	1.310	1.380	1.450	1.620	1.900	1.660	1.860	1.740	2.100	1.990	1.790	1.630
5	1.310	1.390	1.440	1.610	1.840	1.690	1.850	1.770	2.360	2.030	1.790	1.620
6	1.320	1.370	1.440	1.580	1.800	1.700	1.830	1.820	2.230	2.000	1.780	1.610
7	1.320	1.350	1.670	1.560	1.780	1.660	1.800	1.860	2.160	1.950	1.740	1.610
8	1.310	1.420	1.630	1.530	1.740	1.640	1.790	1.900	2.060	1.940	1.730	1.610
9	1.310	1.600	1.570	1.500	1.730	1.630	1.780	1.920	2.020	1.940	1.730	1.610
10	1.310	1.690	1.540	1.490	1.720	1.630	1.750	1.900	2.000	1.900	1.730	1.610
11	1.310	1.680	1.540	1.500	1.700	1.630	1.770	1.890	2.030	1.880	1.740	1.600
12	1.310	1.680	1.540	1.520	1.690	1.640	1.740	1.900	2.090	1.860	1.720	1.580
13	1.300	1.580	1.570	1.540	1.680	1.630	1.730	1.860	2.160	1.850	1.710	1.580
14	1.300	1.540	1.540	1.600	1.670	1.650	1.720	1.850	2.220	1.860	1.690	1.580
15	1.300	1.560	1.580	3.180	1.670	1.670	1.720	1.820	2.250	1.900	1.690	1.580
16	1.300	1.630	1.660	3.600	1.700	1.710	1.710	1.800	2.250	1.860	1.690	1.570
17	1.300	1.550	1.780	3.020	1.680	1.790	1.710	1.770	2.260	1.890	1.690	1.570
18	1.300	1.520	1.700	2.990	1.740	1.760	1.710	1.740	2.280	1.940	1.690	1.570
19	1.300	1.480	1.650	3.100	1.920	1.750	1.710	1.730	2.290	1.940	1.690	1.570
20	1.330	1.500	1.730	2.670	1.820	1.730	1.700	1.700	2.270	1.910	1.670	1.560
21	1.350	1.480	1.880	2.430	1.790	1.720	1.700	1.690	2.220	1.890	1.660	1.550
22	1.350	1.460	1.790	2.290	1.760	1.710	1.730	1.690	2.190	1.890	1.660	1.560
23	1.350	1.460	1.760	2.170	1.740	1.690	1.760	1.700	2.170	1.860	1.670	1.560
24	1.350	1.460	1.780	2.080	1.720	1.690	1.760	1.710	2.110	1.840	1.670	1.550
25	1.330	1.460	1.940	2.040	1.710	1.700	1.790	1.760	2.110	1.820	1.660	1.540
26	1.320	1.430	1.820	1.990	1.720	1.710	1.750	1.840	2.030	1.820	1.660	1.540
27	1.310	1.450	1.870	1.950	1.710	1.740	1.740	1.890	1.980	1.810	1.660	1.530
28	1.340	1.530	1.940	1.920	1.720	1.780	1.720	1.870	2.000	1.820	1.650	1.530
29	1.340	1.550	1.920	1.900	------	1.870	1.720	1.860	2.000	1.850	1.660	1.530
30	1.320	1.550	1.870	1.870	------	1.980	1.730	1.850	2.050	1.860	1.640	1.530
31	1.640	------	1.810	1.940	------	1.930	------	1.630	------	1.830	1.640	------
TOTAL	41.180	45.090	51.880	63.290	49.450	53.170	53.090	55.890	63.530	59.010	52.920	47.380
MEAN	1.328	1.503	1.674	2.042	1.766	1.715	1.770	1.803	2.118	1.904	1.707	1.579
MAX	1.640	1.690	1.940	3.600	2.030	1.980	1.980	1.920	2.360	2.100	1.820	1.640
MIN	1.300	1.350	1.440	1.490	1.670	1.630	1.700	1.690	1.830	1.810	1.640	1.530
AC-FT	81.680	89.440	102.900	125.500	98.080	105.500	105.300	110.900	126.000	117.000	105.000	93.980

CAL YR 1973 TOTAL 539.630 MEAN 1.478 MAX 1.970 MIN 1.300 AC-FT 1.070.000
WTR YR 1974 TOTAL 635.880 MEAN 1.742 MAX 3.600 MIN 1.300 AC-FT 1.261.000

14092100 LAKE BILLY CHINOOK NEAR METOLIUS, OREG.

LOCATION.--Lat 44°36'14", long 121°16'40", in SW¼NE¼ sec.22, T.11 S., R.12 E., Jefferson County, Warm Springs Indian Reservation, near left end of Round Butte Dam on Deschutes River, 5.0 mi (8.0 km) west of Metolius, and at mile 110.6 (178.0 km).

DRAINAGE AREA.--7,490 mi² (19,400 km²), approximately.

PERIOD OF RECORD.--January 1964 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Portland General Electric Co.).

EXTREMES.--Current year: Maximum contents observed, 534,800 acre-ft (659 hm³) July 7, elevation, 1,945.01 ft (592.839 m); minimum contents observed, 456,600 acre-ft (563 hm³) Jan. 12, elevation, 1,924.40 ft (586.557 m).
Period of record: Maximum contents, 538,700 acre-ft (664 hm³) July 15, 16, 1972, elevation, 1,946.00 ft (593.141 m) minimum observed since first filling, 431,100 acre-ft (531 hm³) Feb. 13, 1972, elevation, 1,917.13 ft (584.341 m).

REMARKS.--Reservoir is formed by rockfill dam completed in June 1964 by Portland General Electric Co.; storage began Jan. 2, 1964. Total capacity is 534,700 acre-ft (659 hm³) at elevation 1,945.0 ft (592.84 m) proposed upper limit of operation, and usable capacity is 273,900 acre-ft (337 hm³) between elevations 1,860.0 ft (566.93 m), proposed lower limit of operation, and 1,945.0 ft (592.84 m). Reservoir used for power generation under FPC license 2030. Figures given herein represent total contents.

COOPERATION.--Gage readings and capacity table furnished by Portland General Electric Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	1,944.5	532,800	-
Oct. 31	1,944.38	532,300	-500
Nov. 30	1,942.91	526,500	-5,800
Dec. 31	1,942.62	525,400	-1,100
CAL YR 1973	-	-	+31,100
Jan. 31	1,943.91	530,400	+5,000
Feb. 28	1,941.09	519,400	-11,000
Mar. 31	1,944.24	531,700	+12,300
Apr. 30	1,943.26	527,900	-3,800
May 31	1,944.72	533,600	+5,700
June 30	1,944.35	532,200	-1,400
July 31	1,944.77	533,800	+1,600
Aug. 31	1,944.49	532,700	-1,100
Sept.30	1,944.88	534,300	+1,600
WTR YR 1974	-	-	+1,500

14092500 DESCHUTES RIVER NEAR MADRAS, OREG.

LOCATION.--Lat 44°43'34", long 121°14'45", in SE¼SW¼ sec.1, T.10 S., R.12 E., Jefferson County, on right bank 400 ft (122 m) downstream from reregulating dam, 2.7 mi (4.3 km) downstream from Pelton Dam, 8.5 mi (13.7 km) northwest of Madras, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--7,820 mi^2 (20,250 km^2), approximately.

PERIOD OF RECORD.--October 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,390.25 ft (423.748 m) above mean sea level (levels by Portland General Electric Co.). See WSP 1738 for history of changes prior to Nov. 23, 1957.

AVERAGE DISCHARGE.--51 years, 4,451 ft^3/s (126 m^3/s), 3,225,000 acre-ft/yr (3.98 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 8,530 ft^3/s (242 m^3/s) Apr. 6, gage height, 4.42 ft (1.347 m); minimum, 3,570 ft^3/s (101 m^3/s) May 22.

Period of record: Maximum discharge, 15,800 ft^3/s (447 m^3/s) Dec. 28, 1964, gage height, 6.29 ft (1.917 m); maximum gage height, 6.89 ft (2.100 m) Jan. 1, 1943, site and datum then in use; minimum discharge, 1,200 ft^3/s (34.0 m^3/s) Dec. 13, 1957.

REMARKS.--Records excellent. Diurnal fluctuation caused by Lake Simtustus and reregulating reservoir since 1957, combined capacity for normal operation, 6,500 acre-ft (8.01 hm^3). Some winter and spring runoff stored in Ochoco Reservoir, capacity, 47,500 acre-ft (58.6 hm^3), in Crescent Lake, Crane Prairie and Wickiup Reservoirs, combined capacity, 354,600 acre-ft (437 hm^3), and since 1960, in Prineville Reservoir, capacity, 152,800 acre-ft (188 hm^3), and since 1964, in Lake Billy Chinook, capacity, 534,700 acre-ft (659 hm^3). Large diversions in upper basin for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1398: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,070	4,890	4,380	7,390	6,900	5,180	7,570	6,570	4,690	4,970	4,560	4,160
2	3,970	5,180	4,160	8,010	6,900	4,920	7,820	6,600	4,560	5,100	4,480	4,160
3	3,890	5,050	4,240	8,050	6,420	5,160	7,920	6,600	4,560	4,970	4,530	4,240
4	3,940	4,950	4,160	8,050	5,710	5,270	8,050	6,100	4,580	5,050	4,560	4,240
5	3,940	5,210	4,360	8,010	5,460	5,270	8,170	5,800	4,950	4,920	4,510	4,260
6	3,970	5,880	4,760	8,080	5,820	5,270	8,240	5,770	5,540	4,820	4,480	4,330
7	3,940	6,220	4,920	8,110	5,880	6,100	8,240	5,510	5,600	5,020	4,430	4,240
8	3,920	6,160	5,100	8,140	5,490	5,460	7,540	5,460	5,430	5,400	4,460	4,210
9	3,920	6,220	5,240	8,170	5,490	4,610	7,390	5,430	5,050	5,240	4,480	4,210
10	3,940	5,680	5,210	8,140	5,510	4,110	6,930	5,540	4,820	5,080	4,410	4,340
11	3,990	5,510	5,740	8,050	5,510	4,140	6,630	5,510	4,740	4,890	4,410	4,360
12	4,090	5,400	6,450	7,600	5,350	4,660	6,660	5,510	4,970	4,790	4,430	4,290
13	3,990	5,210	6,630	6,160	5,570	4,890	6,780	5,510	4,970	4,690	4,290	4,240
14	3,970	4,950	6,720	4,950	5,710	4,870	6,780	5,490	5,020	4,690	4,190	4,240
15	3,970	4,870	6,750	4,410	5,020	4,920	6,360	5,460	5,100	4,710	4,290	4,210
16	3,990	4,610	6,540	4,190	4,950	5,000	6,020	5,350	5,160	4,610	4,310	4,190
17	3,940	4,260	6,450	4,160	4,920	4,970	5,770	5,210	5,320	4,610	4,360	4,290
18	3,920	4,530	6,130	4,160	4,970	4,890	5,770	5,180	5,660	4,610	4,360	4,290
19	3,970	5,740	5,930	4,190	5,000	5,180	5,930	5,160	5,740	4,580	4,340	4,340
20	3,990	5,660	5,930	4,140	4,950	5,630	5,880	4,610	5,990	4,710	4,340	4,310
21	3,920	5,630	6,050	4,640	4,920	6,250	5,930	3,940	5,710	4,760	4,410	4,340
22	3,990	5,680	6,130	6,270	5,160	6,510	5,910	3,660	5,490	4,870	4,560	4,290
23	3,970	5,660	6,160	7,630	5,400	6,600	5,910	3,820	5,430	4,820	4,560	4,310
24	4,020	5,660	6,360	7,820	5,320	6,930	6,130	4,240	5,380	4,690	4,460	4,310
25	4,070	5,630	6,780	7,790	5,210	6,540	6,540	4,140	5,240	4,660	4,430	4,260
26	4,290	5,710	7,140	7,670	5,050	6,300	6,750	3,680	5,210	4,560	4,290	4,260
27	4,430	5,770	7,540	6,930	5,270	6,480	6,900	3,700	5,000	4,460	4,210	4,240
28	4,380	5,490	7,730	6,960	5,400	6,600	6,720	4,240	4,760	4,430	4,190	4,110
29	4,640	4,840	7,760	6,990	------	6,720	6,390	4,340	4,690	4,510	4,160	4,140
30	4,740	4,580	7,790	6,900	------	7,080	6,480	4,380	4,660	4,560	4,190	4,410
31	4,660	------	7,480	6,900	------	7,230	------	4,580	------	4,580	4,160	------
TOTAL	126,430	160,830	186,720	208,660	153,260	173,740	204,110	157,090	154,020	148,360	135,840	127,820
MEAN	4,078	5,361	6,023	6,731	5,474	5,605	6,804	5,067	5,134	4,786	4,382	4,261
MAX	4,740	6,220	7,790	8,170	6,900	7,230	8,240	6,600	5,990	5,400	4,560	4,410
MIN	3,890	4,260	4,160	4,140	4,920	4,110	5,770	3,660	4,560	4,430	4,160	4,110
AC-FT	250,800	319,000	370,400	413,900	304,000	344,600	404,900	311,600	305,500	294,300	269,400	253,500

CAL YR 1973 TOTAL 1,644,100 MEAN 4,504 MAX 9,300 MIN 3,390 AC-FT 3,261,000
WTR YR 1974 TOTAL 1,936,880 MEAN 5,307 MAX 8,240 MIN 3,660 AC-FT 3,842,000

14093000 SHITIKE CREEK NEAR WARM SPRINGS, OREG.

LOCATION.--Lat 44°45'41", long 121°13'57", in NW¼NW¼ sec.30, T.9 S., R.13 E., Jefferson County, Warm Springs Indian Reservation, on left bank 1.9 mi (3.1 km) east of Warm Springs and at mile 0.3 (0.5 km).

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 1,380 ft (421 m), from topographic map.

EXTREMES.--Current year: Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Jan. 15; minimum daily, 31 ft³/s (0.88 m³/s) Oct. 18. Period of record: Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Jan. 15, 1974; minimum daily, 20 ft³/s (0.57 m³/s) Dec. 8-15, 1972.

REMARKS.--Records poor. No regulation. Some water is diverted for mill pond at point 0.3 mi (0.5 km) above station.

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	187	130	136	182	128	235	172	323	257	124	78
2	41	94	98	136	190	124	214	168	356	189	124	81
3	37	81	89	123	180	121	189	168	390	176	129	78
4	37	81	85	98	160	117	180	164	390	185	129	77
5	37	69	81	95	149	117	176	168	546	194	126	77
6	37	57	81	85	138	117	172	185	390	214	116	80
7	37	53	203	80	138	114	164	263	323	176	109	77
8	37	61	255	80	134	108	156	268	280	168	109	77
9	41	61	187	80	134	111	153	280	246	164	113	77
10	41	61	143	85	136	111	145	250	235	156	113	76
11	37	98	136	95	126	111	145	230	268	149	116	76
12	37	123	123	100	126	114	142	230	292	149	116	76
13	37	130	117	130	119	108	142	230	349	145	106	74
14	37	136	107	500	119	117	134	225	356	156	103	74
15	35	123	107	2.300	122	114	128	219	427	147	100	74
16	35	165	123	2.100	121	124	128	214	390	142	100	72
17	33	136	165	1.200	124	128	134	209	336	142	100	70
18	31	102	284	1.100	124	138	134	192	342	160	102	68
19	33	107	220	1.000	194	138	134	185	323	156	94	68
20	35	98	345	760	153	134	139	185	329	168	94	67
21	53	94	460	610	145	128	142	185	310	156	91	67
22	53	85	356	450	140	131	142	185	298	147	91	67
23	53	81	314	350	133	131	145	189	310	142	94	67
24	41	81	212	300	129	131	145	199	246	134	94	67
25	41	77	378	255	129	131	156	356	251	131	91	65
26	53	69	274	230	129	134	164	427	219	131	88	65
27	57	65	293	210	133	134	160	427	185	138	88	65
28	64	94	284	190	138	164	145	349	194	142	91	65
29	67	102	255	180	------	206	145	298	313	142	85	63
30	50	117	229	175	------	286	149	280	235	147	83	64
31	71	------	187	174	------	246	------	263	------	131	81	------
TOTAL	1.339	2.888	6.321	13.407	3.945	4.216	4.637	7.363	9.452	4.934	3.200	2.152
MEAN	43.2	96.3	204	432	141	136	155	238	315	159	103	71.7
MAX	71	187	460	2.300	194	286	235	427	546	257	129	81
MIN	31	53	81	80	119	108	128	164	185	131	81	63
AC-FT	2.660	5.730	12.540	26.590	7.820	8.360	9.200	14.600	18.750	9.790	6.350	4.270

CAL YR 1973 TOTAL 29.237 MEAN 80.1 MAX 500 MIN 31 AC-FT 57.990
WTR YR 1974 TOTAL 63.854 MEAN 175 MAX 2.300 MIN 31 AC-FT 126.700

NOTE.--No gage-height record Jan. 6 to Feb. 3.

14097100 WARM SPRINGS RIVER NEAR KAHNEETA HOT SPRINGS, OREG.

LOCATION.--Lat 44°51'24", long 121°08'55", in SE¼SW¼ sec.23, T.8 S., R.13 E., Wasco County, Warm Springs Indian Reservation, on right bank at mile 4.6 (7.4 km).

DRAINAGE AREA.--526 mi² (1,362 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 6,350 ft³/s (180 m³/s) Jan. 16, gage height, 8.68 ft (2.646 m); minimum, 234 ft³/s (6.63 m³/s) Oct. 1-4.

Period of record: Maximum discharge, 6,350 ft³/s (180 m³/s) Jan. 16, 1974, gage height, 8.68 ft (2.646 m); minimum, 227 ft³/s (6.43 m³/s) Aug. 15, 16, Sept. 6, 1973.

REMARKS.--Records excellent. No regulation. Diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	355	665	719	1.120	804	1.150	798	774	513	336	309
2	237	305	459	599	962	769	1.110	813	780	509	333	309
3	237	280	401	570	892	662	961	797	831	491	332	309
4	237	281	377	530	961	635	909	788	903	463	331	300
5	238	290	360	500	937	669	845	798	1.120	459	327	303
6	240	291	360	470	823	716	859	834	1.110	458	324	302
7	246	282	665	450	777	650	809	916	1.030	447	323	302
8	243	296	732	430	746	618	777	967	951	432	324	302
9	244	351	607	440	717	625	773	1.020	878	438	325	304
10	257	455	534	470	687	606	742	1.020	835	433	325	306
11	255	619	495	506	671	625	713	973	823	427	324	305
12	254	642	467	570	655	669	764	984	839	416	322	304
13	251	564	497	609	631	644	733	946	866	406	324	303
14	249	492	464	1.640	618	642	709	884	890	397	327	302
15	247	423	560	4.730	605	809	700	870	906	387	327	302
16	241	449	665	5.670	651	953	696	819	900	386	324	302
17	238	511	1.130	4.360	629	802	696	778	875	388	323	300
18	236	423	942	3.890	615	759	708	739	855	382	322	299
19	239	373	772	3.570	1.380	753	717	703	832	382	324	299
20	255	352	781	2.580	1.010	720	714	672	806	370	326	299
21	263	355	1.390	2.020	923	702	716	655	772	364	324	298
22	262	343	1.090	1.720	834	690	738	648	725	358	322	299
23	254	329	963	1.530	780	675	822	654	695	355	322	299
24	255	335	836	1.330	727	667	851	669	661	351	320	299
25	254	347	1.130	1.240	705	672	890	698	628	348	318	298
26	249	350	980	1.150	690	687	861	766	608	346	318	296
27	246	333	931	1.060	684	695	803	854	584	344	315	296
28	247	386	1.610	1.020	775	761	772	877	556	344	315	299
29	256	442	1.240	931	------	893	761	850	535	342	315	299
30	249	589	985	884	------	1.310	767	821	521	347	310	299
31	254	------	900	926	------	1.210	------	792	------	340	308	------
TOTAL	7.680	11.843	23.932	47.114	22.205	23.092	24.138	25.403	24.089	12.423	10.010	9.043
MEAN	248	396	772	1.520	793	745	805	819	803	401	323	301
MAX	263	642	1.610	5.670	1.380	1.310	1.150	1.020	1.120	513	336	309
MIN	236	280	360	430	605	606	696	648	521	340	308	296
CFSM	.47	.75	1.47	2.89	1.51	1.42	1.53	1.56	1.53	.76	.61	.57
IN.	.54	.84	1.69	3.33	1.57	1.63	1.71	1.80	1.70	.88	.71	.64
AC-FT	15.230	23.490	47.470	93.450	44.040	45.800	47.880	50.390	47.780	24.640	19.850	17.940

CAL YR 1973 TOTAL 128.700 MEAN 353 MAX 1.610 MIN 230 CFSM .67 IN 9.10 AC-FT 255.300
WTR YR 1974 TOTAL 241.022 MEAN 660 MAX 5.670 MIN 236 CFSM 1.25 IN 17.05 AC-FT 478.100

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-21	1230	4.01	1,710	1-16	0130	8.68	6,350
12-28	0900	4.22	1,880				

14097200 WHITE RIVER NEAR GOVERNMENT CAMP, OREG.

LOCATION.--Lat 45°10'40", long 121°34'30", in NE¼SW¼ sec.32, T.4 S., R.10 E., Wasco County, in Mount Hood National Forest, on left bank at Faith Spring, 1.4 mi (2.3 km) above Klip Creek, and at mile 33.3 (53.6 km).

DRAINAGE AREA.--40.7 mi^2 (105.4 km^2).

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,740 ft (835 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 181 ft^3/s (5.13 m^3/s), 60.39 in/yr (1,534 mm/yr), 131,100 acre-ft/yr (162 hm^3/yr).

EXTREMES.--Current year : Maximum discharge, 1,810 ft^3/s (51.3 m^3/s) Jan. 15, gage height, 5.41 ft (1.649 m); minimum, 43 ft^3/s (1.22 m^3/s) Oct. 2, 3.

Period of record: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) Jan. 23, 1970, gage height, 5.24 ft (1.597 m); maximum gage height, 5.41 ft (1.649 m) Jan. 15, 1974; minimum discharge, 39 ft^3/s (1.10 m^3/s) Aug. 18, 1973.

REMARKS.--Records good. No regulation or diversion above station.

REVISION (WATER YEARS).--WRD Oreg. 1972: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	151	176	237	241	111	276	355	439	363	138	82
2	45	99	167	224	210	107	258	326	530	326	138	81
3	44	81	164	220	197	103	230	326	599	298	133	81
4	45	81	156	210	213	107	210	342	798	302	133	82
5	46	77	151	200	185	130	204	397	887	298	128	81
6	51	72	164	190	170	121	207	495	706	280	123	77
7	51	65	338	190	159	109	197	577	594	261	116	75
8	54	75	314	180	153	103	194	616	510	258	113	75
9	54	151	265	170	148	101	200	566	474	251	111	75
10	57	224	237	200	143	103	194	505	490	230	109	77
11	58	283	220	240	140	105	251	495	583	220	109	72
12	64	326	207	300	138	105	265	490	694	207	105	68
13	68	258	204	400	133	103	237	406	752	204	103	65
14	64	217	185	500	135	103	230	372	778	207	99	65
15	64	230	213	1,070	133	116	230	330	758	207	94	65
16	61	318	330	1,210	140	138	227	291	687	191	94	65
17	58	247	429	758	133	164	234	265	706	194	94	65
18	55	210	372	622	140	159	251	251	719	197	94	65
19	54	185	318	594	164	153	254	237	681	197	99	65
20	61	176	355	459	143	148	251	237	616	191	92	65
21	67	164	505	380	135	145	265	244	535	185	88	65
22	74	153	424	334	128	145	295	269	525	179	86	67
23	77	148	397	314	121	143	310	295	479	173	86	65
24	90	140	424	291	118	145	306	338	434	164	86	63
25	96	140	500	295	118	153	310	429	406	162	84	63
26	96	130	397	261	118	164	287	556	367	156	84	63
27	92	148	439	258	113	185	276	566	342	153	84	63
28	90	197	424	251	113	230	283	515	330	153	86	63
29	57	185	359	230	------	258	287	464	338	153	86	63
30	53	176	298	224	------	302	326	434	367	151	86	63
31	188	------	265	244	------	287	------	419	------	145	84	------
TOTAL	2,078	5,107	9,397	11,256	4,182	4,546	7,545	12,408	17,124	6,656	3,165	2,084
MEAN	67.0	170	303	363	149	147	252	400	571	215	102	69.5
MAX	188	326	505	1,210	241	302	326	616	887	363	138	82
MIN	44	65	151	170	113	101	194	237	330	145	84	63
CFSM	1.65	4.18	7.44	8.92	3.66	3.61	6.19	9.83	14.0	5.28	2.51	1.71
IN.	1.90	4.67	8.59	10.29	3.82	4.16	6.90	11.34	15.65	6.08	2.89	1.90
AC-FT	4,120	10,130	18,640	22,330	8,290	9,020	14,970	24,610	33,970	13,200	6,280	4,130

CAL YR 1973 TOTAL 43,216 MEAN 118 MAX 505 MIN 41 CFSM 2.90 IN 39.50 AC-FT 85,720
WTR YR 1974 TOTAL 85,548 MEAN 234 MAX 1,210 MIN 44 CFSM 5.75 IN 78.19 AC-FT 169,700

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-24	2100	4.06	698	5- 8	2030	3.98	652
1-15	2330	5.41	1,810	6- 4	1930	4.50	1,000

14101500 WHITE RIVER BELOW TYGH VALLEY, OREG.

LOCATION.--Lat 45°14'30", long 121°05'38", in NE¼NE¼ sec.7, T.4 S., R.14 E., Wasco County, on left bank 200 ft (61 m) downstream from former Pacific Power & Light Co. powerplant at White River Falls, 3.9 mi (6.3 km) east of town of Tygh Valley, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--417 mi^2 (1,080 km^2), revised.

PERIOD OF RECORD.--October 1917 to current year.

GAGE.--Water-stage recorder. Datum of gage is 870.15 ft (265.222 m) above mean sea level (levels by Pacific Power & Light Co.). Prior to July 28, 1931, at site 750 ft (229 m) downstream at different datum. July 28, 1931, to Sept. 30, 1954, at site 700 ft (213 m) downstream at different datums.

AVERAGE DISCHARGE.--57 years, 431 ft^3/s (12.2 m^3/s), 312,300 acre-ft/yr (385 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 7,910 ft^3/s (224 m^3/s) Jan. 16, gage height, 9.74 ft (2.969 m); minimum, 94 ft^3/s (2.66 m^3/s) Oct. 4.

Period of record: Maximum discharge, 13,300 ft^3/s (377 m^3/s) Jan. 6, 1923, gage height, about 13.3 ft (4.05 m), site and datum then in use, from rating curve extended above 5,000 ft^3/s (142 m^3/s); minimum, 7.5 ft^3/s (0.21 m^3/s) Aug. 31, 1961; minimum daily, 71 ft^3/s (2.01 m^3/s) Aug. 31, 1941.

REMARKS.--Records good. No regulation. Diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1448: 1920, 1923, 1927-28, drainage area. WSP 1935: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	339	471	841	1.190	635	1.190	1.110	977	708	238	152
2	101	143	407	734	1.060	606	1.140	1.050	1.110	635	231	152
3	99	157	375	550	977	545	1.030	1.020	1.280	578	218	150
4	99	152	351	540	1.040	529	956	1.030	1.440	561	215	152
5	97	157	328	500	956	589	915	1.050	1.820	556	205	150
6	99	160	343	480	861	641	895	1.230	1.580	529	190	147
7	104	157	782	470	802	589	841	1.390	1.390	488	182	145
8	103	162	950	460	751	556	815	1.510	1.220	463	179	142
9	103	305	732	450	714	534	821	1.510	1.130	463	176	142
10	103	448	623	470	677	519	789	1.400	1.130	425	176	147
11	101	671	556	500	647	545	815	1.310	1.210	412	173	145
12	103	802	503	540	623	578	929	1.320	1.390	391	176	142
13	101	647	508	623	595	545	847	1.170	1.530	363	176	140
14	99	488	458	1.540	572	578	815	1.070	1.600	359	171	137
15	99	425	572	5.930	561	770	815	984	1.620	359	168	137
16	103	553	815	6.460	594	802	795	881	1.500	347	162	135
17	103	545	1.360	4.340	567	804	815	795	1.500	347	162	137
18	103	444	1.220	4.090	600	782	854	732	1.530	343	162	135
19	101	375	1.030	3.470	936	757	867	683	1.480	339	168	135
20	115	347	1.050	2.590	795	720	854	653	1.390	332	173	133
21	117	332	1.930	2.040	745	689	874	612	1.230	328	165	133
22	123	309	1.610	1.740	684	671	956	629	1.160	324	162	130
23	121	290	1.400	1.570	635	641	1.040	683	1.080	316	160	130
24	133	290	1.250	1.410	595	629	1.030	738	950	301	165	126
25	130	287	1.760	1.350	576	647	1.060	901	874	290	162	123
26	126	276	1.410	1.280	572	677	1.010	1.150	795	283	160	126
27	113	269	1.390	1.180	550	714	956	1.260	714	276	157	128
28	109	371	1.440	1.160	623	802	943	1.200	671	272	155	126
29	133	420	1.370	1.080	------	943	943	1.110	647	265	152	140
30	115	444	1.160	1.030	------	1.150	1.020	1.050	643	258	152	147
31	182	------	1.030	1.100	------	1.220	------	998	------	248	155	------
TOTAL	3.452	10.965	29.245	50.622	20.500	21.451	27.630	32.229	36.671	12.159	5.446	4.164
MEAN	111	366	943	1.633	732	692	921	1.040	1.222	392	176	139
MAX	182	802	1.930	6.460	1.190	1.220	1.190	1.510	1.820	708	238	152
MIN	97	152	328	450	550	519	789	612	647	248	152	123
AC-FT	6.850	21.750	58.010	100.400	40.660	42.550	54.800	63.930	72.740	24.120	10.800	8.260

CAL YR 1973 TOTAL 102.117 MEAN 280 MAX 1.930 MIN 83 AC-FT 202.500
WTR YR 1974 TOTAL 254.535 MEAN 697 MAX 6.460 MIN 97 AC-FT 504.900

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-17	1330	4.43	1,580	3-30	1600	4.05	1,280
12-21	0930	5.13	2,210	5- 9	0400	4.44	1,590
12-25	0230	4.98	2,070	6- 5	0830	4.79	1,900
1-16	0230	9.74	7,910				

14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OREG.

LOCATION.--Lat 45°37'20", long 120°54'05", in SE¼ sec.26, T.2 N., R.15 E., Sherman County, on right bank at Moody, 4.0 mi (6.4 km) southwest of Biggs, and at mile 1.4 (2.3 km).

DRAINAGE AREA.--10,500 mi² (27,200 km²), approximately.

PERIOD OF RECORD.--October 1897 to December 1899 (published as "near Moro"), July 1906 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 167.54 ft (51.066 m) above mean sea level. Oct. 19, 1897, to Dec. 31, 1899, nonrecording gage at site 10 mi (16 km) upstream at different datum. July 22, 1906, to July 18, 1930, nonrecording gage at site 300 ft (91 m) downstream at datum 0.50 ft (0.152 m) lower.

AVERAGE DISCHARGE.--70 years, 5,822 ft³/s (164.9 m³/s), 4,218,000 acre-ft/yr (5.20 km³/yr).

EXTREMES.--Current year: Maximum discharge, 25,800 ft³/s (731 m³/s) Jan. 16, gage height, 7.20 ft (2.195 m); minimum, 4,120 ft³/s (117 m³/s) Oct. 18.

Period of record: Maximum discharge, 75,500 ft³/s (2,140 m³/s) Dec. 22, 1964, gage height, 11.80 ft (3.597 m), from rating curve extended above 47,000 ft³/s (1,330 m³/s); minimum, 2,400 ft³/s (68.0 m³/s) Dec. 5, 1957.

REMARKS.--Records excellent. Some fluctuation caused by regulation at Lake Simtustus since 1957. Some winter and spring runoff stored in Ochoco Reservoir, capacity, 46,420 acre-ft (57.2 hm³), in Crescent Lake, Crane Prairie and Wickiup Reservoirs, combined capacity, 323,390 acre-ft (399 hm³), and since 1960, in Prineville Reservoir (see station 14080400), and since 1964 in Lake Billy Chinook (see station 14092100). Large diversions in upper river basin for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 754: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,420	5,560	6,860	9,560	9,920	7,510	10,500	9,030	6,780	6,270	5,400	4,790
2	4,410	5,610	6,070	9,720	9,760	6,950	11,000	9,010	6,870	6,700	5,350	4,790
3	4,280	5,750	5,500	9,930	9,500	6,860	10,800	9,030	6,970	6,440	5,270	4,820
4	4,260	5,480	5,280	9,630	8,660	6,880	10,800	8,940	7,250	6,400	5,330	4,880
5	4,290	5,430	5,110	9,510	8,190	6,970	10,700	8,210	7,980	6,440	5,310	4,890
6	4,340	5,920	5,430	9,390	7,810	7,080	10,800	8,270	8,730	6,240	5,270	4,900
7	4,330	6,570	6,620	9,320	8,300	7,270	10,600	8,520	8,700	6,150	5,150	4,900
8	4,310	6,850	7,890	9,320	7,660	7,790	10,500	8,420	8,420	6,480	5,150	4,850
9	4,270	6,920	7,340	9,320	7,490	6,820	9,780	8,570	7,770	6,630	5,150	4,810
10	4,270	7,930	6,990	9,260	7,410	5,950	9,640	8,510	7,500	6,520	5,140	4,830
11	4,320	7,830	6,840	9,240	7,340	5,670	8,890	8,430	7,060	6,250	5,090	5,070
12	4,390	7,810	7,490	9,250	7,290	5,800	9,010	8,310	7,490	6,070	5,100	4,920
13	4,380	7,560	8,010	8,490	7,000	6,700	9,050	8,200	7,800	5,870	5,100	4,890
14	4,340	6,630	8,030	11,400	7,550	6,620	9,000	7,990	7,950	5,760	4,910	4,890
15	4,320	6,050	8,210	18,300	7,050	6,930	8,940	7,850	8,140	5,730	4,860	4,840
16	4,300	6,130	8,660	23,300	6,630	7,810	8,240	7,690	8,120	5,790	4,970	4,790
17	4,320	5,850	9,630	16,700	6,660	7,610	8,050	7,330	8,000	5,650	4,970	4,800
18	4,260	5,440	10,100	14,400	6,550	7,400	7,800	7,150	8,360	5,650	5,030	4,900
19	4,280	5,910	8,710	16,000	7,510	7,220	8,010	7,020	8,540	5,690	5,010	4,890
20	4,370	6,670	8,370	12,200	7,760	7,600	8,080	6,860	8,600	5,620	5,020	4,900
21	4,370	6,530	10,300	10,300	7,290	7,780	8,030	6,090	8,650	5,770	5,050	4,910
22	4,380	6,520	10,700	10,100	7,090	8,620	8,110	5,330	7,950	5,730	5,090	4,940
23	4,420	6,460	9,560	11,300	7,310	8,480	8,320	5,250	7,740	5,910	5,280	4,900
24	4,400	6,450	9,120	11,800	7,250	8,880	8,460	5,570	7,570	5,670	5,210	4,900
25	4,420	6,420	10,100	11,400	7,140	8,920	8,890	6,220	7,270	5,590	5,120	4,900
26	4,450	6,400	10,200	11,200	6,980	8,400	9,210	6,080	7,070	5,540	5,090	4,830
27	4,710	6,510	10,300	10,500	6,730	8,430	9,320	6,150	6,950	5,400	4,890	4,860
28	4,740	6,590	11,500	9,960	7,230	8,830	9,270	6,330	6,530	5,310	4,840	4,780
29	4,780	6,450	12,100	9,800	------	9,080	8,960	6,690	6,280	5,320	4,800	4,700
30	5,070	6,330	11,200	9,660	------	9,960	8,630	6,620	6,260	5,420	4,820	4,740
31	5,110	------	10,800	9,580	------	11,000	------	6,600	------	5,430	4,810	------
TOTAL	137,310	192,600	263,020	349,840	213,060	237,820	277,390	230,270	229,300	183,440	157,580	145,810
MEAN	4,429	6,420	8,485	11,290	7,609	7,672	9,246	7,428	7,643	5,917	5,083	4,860
MAX	5,110	7,930	12,100	23,300	9,920	11,000	11,000	9,030	8,730	6,700	5,400	5,070
MIN	4,260	5,430	5,110	8,490	6,550	5,670	7,800	5,250	6,260	5,310	4,800	4,700
AC-FT	272,400	382,000	521,700	693,900	422,600	471,700	550,200	456,700	454,800	363,900	312,600	289,200

CAL YR 1973 TOTAL 1,928,650 MEAN 5,284 MAX 12,100 MIN 3,970 AC-FT 3,825,000
WTR YR 1974 TOTAL 2,617,440 MEAN 7,171 MAX 23,300 MIN 4,260 AC-FT 5,192,000

14105700 COLUMBIA RIVER AT THE DALLES, OREG.

LOCATION.--Lat 45°36'27", long 121°10'20", in SW¼SW¼ sec.34, T.2 N., R.13 E., Wasco County, Corps of Engineers land, on left bank 0.3 mi (0.5 km) downstream from Mill Creek, 2.6 mi (4.2 km) downstream from The Dalles Dam, and at mile 188.9 (303.9 km).

DRAINAGE AREA.--237,000 mi^2 (614,000 km^2), approximately.

PERIOD OF RECORD.--October 1857 to September 1877 (annual maximum only, at Lower Cascades Landing, published in WSP 1318), June 1878 to current year. Published as "near The Dalles" 1936-56.

GAGE.--Acoustic velocity meter (AVM) with water-stage and velocity-index recorder. Datum of gage is at mean sea level. See WSP 1738 for history of changes prior to Mar. 16, 1957. Mar. 16, 1957, to Sept. 30, 1968, water-stage recorder at site 0.4 mi (0.6 km) upstream at same datum.

AVERAGE DISCHARGE.--96 years, 194,700 ft^3/s (5,510 m^3/s), 141,100,000 acre-ft/yr (174 km^3/yr).

EXTREMES.--Current year: Maximum daily discharge, 588,000 ft^3/s (16,650 m^3/s) June 20, gage height, 87.62 ft (26.707 m); minimum daily discharge, 84,700 ft^3/s (2,400 m^3/s) Oct. 28.
1858-1974: Maximum discharge, 1,240,000 ft^3/s (35,120 m^3/s) June 6, 1894, gage height, 106.5 ft (32.46 m).
1878-1974: Minimum discharge, 12,100 ft^3/s (343 m^3/s) Apr. 16, 1968 (recorded by AVM due to closure of John Day Dam).

REMARKS.--Records excellent. Considerable regulation by many large reservoirs. Diurnal fluctuations caused by powerplant and gates at The Dalles Dam. Many diversions for irrigation above station. Records of chemical analysis for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 534: 1920(m). WSP 1094: 1894. WSP 1248: 1866, 1888, 1899, 1909. WSP 1318: 1876(M).

DISCHARGE, IN CUBIC FEET PER SFCOND, WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132,000	127,000	136,000	134,000	270,000	233,000	251,000	411,000	359,000	496,000	224,000	89,100
2	127,000	126,000	120,000	208,000	280,000	229,000	309,000	419,000	358,000	482,000	204,000	111,000
3	128,000	126,000	116,000	192,000	299,000	219,000	308,000	426,000	357,000	478,000	195,000	155,000
4	129,000	129,000	131,000	182,000	309,000	248,000	306,000	415,000	379,000	473,000	150,000	160,000
5	115,000	125,000	167,000	154,000	284,000	216,000	275,000	401,000	403,000	453,000	218,000	149,000
6	105,000	137,000	135,000	123,000	263,000	214,000	261,000	405,000	403,000	419,000	195,000	157,000
7	95,300	102,000	157,000	168,000	256,000	210,000	278,000	414,000	405,000	384,000	193,000	127,000
8	110,000	115,000	125,000	160,000	243,000	216,000	280,000	411,000	404,000	368,000	195,000	99,200
9	123,000	89,900	156,000	172,000	234,000	221,000	284,000	414,000	402,000	340,000	188,000	151,000
10	108,000	92,500	159,000	171,000	266,000	142,000	290,000	391,000	398,000	316,000	198,000	136,000
11	113,000	103,000	183,000	165,000	258,000	218,000	296,000	363,000	392,000	318,000	163,000	148,000
12	114,000	106,000	157,000	146,000	242,000	224,000	298,000	328,000	404,000	286,000	224,000	174,000
13	102,000	107,000	138,000	119,000	205,000	216,000	313,000	304,000	419,000	271,000	214,000	178,000
14	86,900	122,000	187,000	143,000	217,000	235,000	297,000	300,000	445,000	209,000	155,000	113,000
15	105,000	142,000	143,000	217,000	222,000	253,000	273,000	296,000	472,000	234,000	161,000	101,000
16	114,000	154,000	109,000	271,000	186,000	216,000	292,000	287,000	497,000	217,000	177,000	116,000
17	124,000	113,000	132,000	309,000	170,000	186,000	310,000	291,000	535,000	210,000	142,000	129,000
18	113,000	111,000	152,000	379,000	206,000	252,000	326,000	332,000	567,000	228,000	118,000	142,000
19	108,000	137,000	207,000	355,000	200,000	234,000	331,000	322,000	568,000	247,000	166,000	150,000
20	95,200	115,000	200,000	337,000	201,000	238,000	326,000	315,000	588,000	243,000	157,000	143,000
21	93,400	127,000	196,000	326,000	236,000	250,000	306,000	318,000	584,000	249,000	144,000	111,000
22	108,000	113,000	217,000	366,000	232,000	238,000	297,000	308,000	583,000	231,000	148,000	92,600
23	121,000	125,000	158,000	371,000	249,000	233,000	314,000	302,000	585,000	238,000	139,000	140,000
24	116,000	103,000	186,000	355,000	218,000	192,000	279,000	300,000	586,000	276,000	122,000	136,000
25	119,000	89,000	198,000	366,000	232,000	234,000	256,000	316,000	583,000	248,000	101,000	147,000
26	115,000	135,000	193,000	364,000	256,000	230,000	339,000	313,000	580,000	234,000	144,000	155,000
27	94,300	122,000	207,000	339,000	207,000	241,000	380,000	333,000	579,000	183,000	145,000	149,000
28	84,700	123,000	235,000	327,000	191,000	250,000	401,000	359,000	567,000	177,000	176,000	115,000
29	105,000	123,000	235,000	330,000	-------	251,000	404,000	371,000	530,000	211,000	172,000	113,000
30	120,000	125,000	201,000	318,000	-------	265,000	410,000	393,000	506,000	224,000	153,000	154,000
31	129,000	-------	178,000	264,000	-------	236,000	-------	363,000	-------	211,000	116,000	-------
TOTAL	3,452.8M	3,564.4M	5,214.0M	7,831.0M	6,632.0M	7,040.0M	9,290.0M	10,921M	14,438M	9,154.0M	5,197.0M	4,040.9M
MEAN	111,400	118,800	168,200	252,600	236,900	227,100	309,700	352,300	481,300	295,300	167,600	134,700
MAX	132,000	154,000	235,000	379,000	309,000	265,000	410,000	426,000	588,000	496,000	224,000	178,000
MIN	84,700	89,000	109,000	119,000	170,000	142,000	251,000	287,000	357,000	177,000	101,000	89,100
AC-FT	6,849M	7,070M	10,340M	15,530M	13,150M	13,960M	18,430M	21,660M	28,640M	18,160M	10,310M	8,015M

CAL YR 1973 TOTAL 49,619,700 MEAN 135,900 MAX 235,000 MIN 75,500 AC-FT 98,420,000
WTR YR 1974 TOTAL 86,775,100 MEAN 237,700 MAX 588,000 MIN 84,700 AC-FT 172,100,000

14105850 SOUTH FORK MILL CREEK NEAR THE DALLES, OREG.

LOCATION.--Lat 45°32'15", long 121°19'00", in NE¼SE¼ sec.28, T.1 N., R.12 E., Wasco County, on right bank 0.2 mi (0.3 km) upstream from Wicks Reservoir, 7.8 mi (12.6 km) southwest of The Dalles, and at mile 1.1 (1.8 km).

DRAINAGE AREA.--28.0 mi² (72.5 km²).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 914.52 ft (278.746 m) above mean sea level (levels by city of The Dalles).

AVERAGE DISCHARGE.--9 years (1962-71), 15.3 ft³/s (0.433 m³/s), 11,080 acre-ft/yr (13.7 hm³/yr), adjusted for diversion and pumpage; 6 years (1959-62, 1971-74), 23.8 ft³/s (0.674 m³/s), 17,240 acre-ft/yr (21.3 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,250 ft³/s (35.4 m³/s) Jan. 15, gage height, 6.36 ft (1.939 m), from floodmark, from slope-area measurement of peak flow; minimum, 4.0 ft³/s (0.113 m³/s) Oct. 1-6, 8-13, 15-19.
Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) Jan. 15, 1974, gage height, 6.36 ft (1.939 m), from floodmark, from slope-area measurement of peak flow; minimum, 0.80 ft³/s (0.023 m³/s) Dec. 15, 1965.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow augmented by ground water pumped into stream 0.5 mi (0.8 km) above station at times causing slight regulation and by diversion from Dog River (Hood River basin) into South Fork Mill Creek several miles above station during low-flow periods. Water stored in Cow Creek Reservoir since February 1969, capacity, 990 acre-ft (1.22 hm³). Monthly discharges are not adjusted for the augmented flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.2	24	57	100	69	112	50	27	17	12	10
2	4.0	5.5	21	55	94	67	99	50	26	17	13	9.7
3	4.0	7.0	21	50	85	64	85	47	26	17	15	10
4	4.0	7.4	19	50	85	59	74	42	26	17	15	10
5	4.0	7.0	17	48	80	62	68	42	27	17	15	10
6	4.3	7.8	17	46	75	70	69	46	26	16	15	10
7	4.3	7.4	21	44	70	68	65	49	25	16	15	9.7
8	4.3	8.2	25	44	65	65	61	50	24	16	15	10
9	4.3	11	25	42	65	63	58	49	23	17	15	10
10	4.0	12	23	44	60	61	54	45	22	17	15	10
11	4.3	17	23	46	60	59	53	41	22	17	15	10
12	4.0	23	23	48	55	58	53	41	22	17	15	9.7
13	4.3	16	23	80	55	59	51	41	22	17	15	9.7
14	4.3	14	22	120	55	63	49	40	22	16	14	9.7
15	4.3	17	24	700	55	65	48	40	21	16	12	9.7
16	4.3	22	27	700	55	68	48	36	21	16	11	9.7
17	4.0	19	34	440	55	78	48	35	21	16	11	9.7
18	4.0	16	35	400	60	82	49	33	21	16	11	9.7
19	4.0	13	42	320	80	84	51	31	20	16	11	9.7
20	4.6	14	57	250	80	82	51	30	19	16	12	9.7
21	4.6	14	109	180	80	80	51	29	19	16	12	9.7
22	4.6	13	109	160	75	74	51	27	19	16	11	9.7
23	5.2	13	98	145	75	72	56	27	18	16	10	9.7
24	4.6	14	106	135	70	70	61	28	18	14	10	9.7
25	4.6	16	148	130	65	69	62	28	18	12	10	9.7
26	4.6	15	118	125	67	70	57	30	18	11	10	9.7
27	4.6	15	101	115	64	74	51	31	17	11	10	9.7
28	4.9	17	106	105	65	84	48	30	16	11	10	9.7
29	4.9	21	94	100	------	90	45	29	17	11	10	9.7
30	4.6	24	77	96	------	127	47	29	17	11	10	9.7
31	5.5	------	66	94	------	118	------	28	------	11	10	------
TOTAL	136.0	411.5	1,655	4,969	1,950	2,274	1,775	1,154	640	470	385	293.7
MEAN	4.39	13.7	53.4	160	69.6	73.4	59.2	37.2	21.3	15.2	12.4	9.79
MAX	5.5	24	148	700	100	127	112	50	27	17	15	10
MIN	4.0	5.2	17	42	55	58	45	27	16	11	10	9.7
AC-FT	270	816	3,280	9,860	3,870	4,510	3,520	2,290	1,270	932	764	583

CAL YR 1973 TOTAL 4,870.8 MEAN 13.3 MAX 148 MIN 4.0 AC-FT 9,660
WTR YR 1974 TOTAL 16,113.2 MEAN 44.1 MAX 700 MIN 4.0 AC-FT 31,960

PEAK DISCHARGE (BASE, 90 CFS)

NOTE.--No gage-height record Jan. 15 to Feb. 25.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-21	1930	2.25	122	1-15	2300	6.36	1,250
2-24	2200	2.48	166	3-30	1300	2.67	199

14113200 MOSIER CREEK NEAR MOSIER, OREG.

LOCATION.--Lat 45°38'55", long 121°22'35", in NW¼NW¼ sec.19, T.2 N., R.12 E., Wasco County, on left bank 0.1 mi (0.2 km) downstream from West Fork Mosier Creek, 2.5 mi (4.0 km) southeast of Mosier, and at mile 3.0 (4.8 km).

DRAINAGE AREA.--41.5 mi² (107.5 km²).

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 425 ft (130 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 28.5 ft³/s (0.81 m³/s), 20,650 acre-ft/yr (25.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,040 ft³/s (86.1 m³/s) Jan. 15, gage height, 7.92 ft (2.414 m); minimum, 0.70 ft³/s (0.020 m³/s) Sept. 2.
Period of record: Maximum discharge, 4,790 ft³/s (136 m³/s) Dec. 23, 1964, gage height, 8.9 ft (2.71 m), from flood profile, from rating curve extended above 1,000 ft³/s (28.3 m³/s), on basis of slope-area measurement of peak flow; minimum, 0.60 ft³/s (0.017 m³/s) July 31, 1968, July 30, 1972.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation. Several small pumping diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	5.9	68	84	136	99	124	38	8.5	5.0	2.2	1.1
2	2.0	4.1	55	72	120	101	130	36	8.5	5.0	2.0	.80
3	2.0	3.3	45	66	101	91	119	33	8.0	5.0	2.0	.80
4	2.2	3.9	38	60	94	85	111	32	8.0	5.0	2.0	.90
5	2.2	3.7	32	56	90	103	106	31	7.5	5.0	2.0	1.1
6	2.7	3.5	30	52	85	119	102	31	7.5	4.8	1.9	1.1
7	3.0	3.7	48	48	80	109	95	31	7.0	4.8	1.9	.80
8	2.7	4.9	58	45	77	97	90	29	7.0	4.6	1.9	1.0
9	2.5	13	50	42	74	86	88	27	7.0	4.6	1.8	1.4
10	2.5	18	41	40	69	77	80	28	6.5	4.4	1.8	1.6
11	2.5	34	35	38	66	73	79	27	6.5	4.4	1.8	1.5
12	2.7	69	31	35	63	70	78	25	6.5	4.2	1.8	1.4
13	2.7	50	30	40	60	67	69	22	6.5	4.2	1.7	1.3
14	2.7	39	29	345	58	67	64	22	6.0	4.0	1.7	1.0
15	2.7	45	41	1,620	60	71	63	23	6.0	4.0	1.7	1.2
16	2.7	80	83	1,100	62	77	59	22	6.0	3.8	1.5	1.1
17	2.8	61	154	640	63	86	56	20	6.0	3.7	1.4	1.0
18	2.8	43	116	556	70	87	56	20	6.0	3.6	1.4	1.0
19	3.0	31	80	496	160	84	55	18	6.0	3.4	1.4	1.0
20	4.1	27	87	312	147	76	52	16	6.0	3.4	1.4	.90
21	4.4	25	162	210	135	68	52	15	6.0	3.2	1.4	.80
22	3.9	26	142	174	124	64	53	14	5.5	3.0	1.4	.90
23	5.1	23	130	172	111	59	58	14	5.5	3.0	1.4	1.0
24	4.6	24	188	180	102	55	59	13	5.5	2.8	1.3	.90
25	3.9	26	245	202	94	55	52	12	5.5	2.8	1.1	1.0
26	3.5	25	160	190	93	55	46	12	5.5	2.6	.90	1.0
27	3.0	25	119	164	90	57	42	11	5.5	2.6	.90	1.4
28	3.1	34	98	125	92	61	40	10	5.5	2.4	.90	1.5
29	3.1	54	91	92	------	76	38	10	5.5	2.3	.80	1.5
30	3.0	66	70	91	------	103	38	9.5	5.0	2.2	.80	1.8
31	4.1	------	60	108	------	119	------	9.0	------	2.2	1.0	------
TOTAL	94.2	871.0	2,616	7,455	2,576	2,497	2,154	660.5	192.0	116.8	47.20	33.80
MEAN	3.04	29.0	84.4	240	92.0	80.5	71.8	21.3	6.40	3.74	1.52	1.13
MAX	5.1	80	245	1,620	160	119	130	38	8.5	5.0	2.2	1.8
MIN	2.0	3.3	29	35	58	55	38	9.0	5.0	2.2	.80	.80
AC-FT	187	1,730	5,190	14,790	5,110	4,950	4,270	1,310	381	230	94	67

CAL YR 1973	TOTAL 6,259.60	MEAN 17.1	MAX 245	MIN .81	AC-FT 12,420
WTR YR 1974	TOTAL 19,312.70	MEAN 52.9	MAX 1,620	MIN .80	AC-FT 38,310

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-17	0800	3.23	218	1-15	1000	7.92	3,040
12-25	0030	3.83	309				

NOTE.--No gage-height record May 27 to Aug. 21.

14118500 WEST FORK HOOD RIVER NEAR DEE, OREG.

LOCATION.--Lat 45°35'55", long 121°38'05", in SE¼ sec.1, T.1 N., R.9 E., Hood River County, on left bank 0.3 mi (0.5 km) upstream from Dead Point Creek, 0.8 mi (1.3 km) northwest of Dee, and at mile 0.4 (0.6 km).

DRAINAGE AREA.--95.6 mi^2 (247.6 km^2).

PERIOD OF RECORD.--September 1913 to February 1916 (incomplete), June 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 802.1 ft (244.48 m) above mean sea level. Sept. 1, 1913, to Feb. 12, 1916, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum.

AVERAGE DISCHARGE.--43 years (1913-14, 1932-74), 566 ft^3/s (16.03 m^3/s), 410,100 acre-ft/yr (506 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Jan. 15, gage height, 14.22 ft (4.334 m), from high-water mark in well; minimum, 131 ft^3/s (3.71 m^3/s) Oct. 18, 19.

Period of record: Maximum discharge not determined, Dec. 22, 1964, gage height, 27.0 ft (8.23 m), from floodmarks; maximum daily, 15,000 ft^3/s (425 m^3/s) Dec. 23, 1964; minimum, 93 ft^3/s (2.63 m^3/s) Aug. 22, 1941.

REMARKS.--Records excellent. No regulation. Dee Irrigation District canal diverts from right bank about 6 mi (10 km) above station for irrigation above station and in Middle Fork basin. Diversions from Green Point Creek basin above station for irrigation near Oak Grove; water from two of these diversions is carried in Hood River Irrigation District canal.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	1,080	1,010	756	2,130	679	1,250	942	865	699	339	223
2	159	665	932	683	1,500	674	1,100	877	1,010	603	339	220
3	153	515	932	652	1,210	607	1,000	826	1,100	554	336	215
4	147	466	843	580	1,380	669	900	837	1,720	571	336	215
5	143	402	734	560	1,090	1,550	950	979	1,890	607	323	213
6	168	357	756	550	918	1,270	1,000	1,190	1,400	571	301	203
7	212	329	1,960	550	804	918	950	1,350	1,190	533	283	198
8	174	336	1,550	540	724	750	900	1,370	1,010	533	274	198
9	161	990	1,100	520	674	659	900	1,230	942	550	274	213
10	153	1,430	879	540	635	626	1,100	1,270	967	508	271	215
11	149	1,770	775	560	607	654	1,500	1,490	1,120	508	277	201
12	149	2,120	768	590	589	640	1,400	1,470	1,230	470	265	194
13	153	1,690	921	1,000	563	617	1,100	1,140	1,270	453	257	187
14	149	1,280	889	2,340	689	598	900	1,060	1,320	474	249	185
15	143	1,720	1,090	9,280	709	709	800	996	1,260	478	243	183
16	141	2,460	2,160	6,990	877	766	770	912	1,140	425	240	180
17	138	1,440	2,650	3,700	820	1,030	777	815	1,170	482	241	180
18	136	1,010	1,650	2,540	936	900	809	793	1,190	529	246	178
19	132	779	1,210	2,680	1,700	820	804	766	1,150	495	262	178
20	162	793	1,480	1,760	1,190	750	804	745	1,000	474	265	176
21	206	747	1,950	1,340	973	700	860	724	900	441	249	176
22	190	648	1,630	1,210	837	600	930	766	883	425	238	176
23	208	601	1,790	1,270	730	550	942	809	804	403	243	176
24	375	613	2,170	1,290	654	550	924	906	740	381	241	171
25	449	734	2,090	1,830	684	600	894	1,140	719	367	238	171
26	357	670	1,440	1,540	719	700	820	1,350	664	370	235	171
27	299	905	1,640	1,460	679	800	815	1,210	645	363	233	169
28	412	1,840	1,680	1,490	694	900	820	1,090	635	356	241	167
29	433	1,500	1,310	1,390	------	1,100	809	973	654	377	243	165
30	351	1,160	1,030	1,670	------	1,300	888	877	724	374	235	162
31	1,330	------	870	2,320	------	1,200	------	843	------	353	233	------
TOTAL	7,702	31,050	41,959	54,171	25,715	24,886	28,416	31,748	31,312	14,727	8,250	5,659
MEAN	248	1,035	1,354	1,747	918	803	947	1,024	1,044	475	266	189
MAX	1,330	2,460	2,650	9,280	2,130	1,550	1,500	1,490	1,890	699	339	223
MIN	132	329	734	520	563	550	770	724	635	353	233	162
AC-FT	15,280	61,590	83,230	107,400	51,010	49,360	56,360	62,970	62,110	29,210	16,360	11,220

CAL YR 1973 TOTAL 176,333 MEAN 483 MAX 2,700 MIN 105 AC-FT 349,600
WTR YR 1974 TOTAL 305,595 MEAN 837 MAX 9,280 MIN 132 AC-FT 606,100

PEAK DISCHARGE (BASE, 4,100 CFS).--Dec. 24 (1930) 4,200 cfs (8.40 ft); Jan. 15 (1130) 13,000 cfs (14.22 ft).

14120000 HOOD RIVER AT TUCKER BRIDGE, NEAR HOOD RIVER, OREG.

LOCATION.--Lat 45°39'20", long 121°32'50", in SE¼ sec.15, T.2 N., R.10 E., Hood River County, on right bank 25 ft (8 m) downstream from Tucker Bridge, 0.5 mi (0.8 km) upstream from Odell Creek, 4.5 mi (7.2 km) southwest of Hood River, and at mile 6.1 (9.8 km).

DRAINAGE AREA.--279 mi^2 (723 km^2).

PERIOD OF RECORD.--October 1897 to December 1899, September 1913 to September 1914, August 1915 to September 1917, January 1965 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 383.2 ft (116.80 m) above mean sea level (Oregon State Highway Department bench mark). Prior to July 23, 1915, nonrecording gage at bridge at various datums. July 23 to Dec. 21, 1915, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum. January 1916 to September 1917, nonrecording gage at bridge at different datum. Jan. 16 to July 23, 1965, nonrecording gage at bridge.

AVERAGE DISCHARGE.--16 years (1897-99, 1913-14, 1915-17, 1965-74), 1,167 ft^3/s (33.05 m^3/s), 845,500 acre-ft/yr (1.04 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 19,700 ft^3/s (558 m^3/s) Jan. 15, gage height, 14.48 ft (4.414 m), from crest gage; minimum, 297 ft^3/s (8.41 m^3/s) Oct. 5.

Period of record: Maximum discharge, 19,700 ft^3/s (558 m^3/s), Jan. 15, 1974, gage height, 14.48 ft (4.414 m) from crest gage; minimum recorded, 136 ft^3/s (3.85 m^3/s) Sept. 16, 1915, caused by temporary storage behind dam at Dee.

Flood of Dec. 22, 1964, reached a stage of 20.6 ft (6.28 m), present datum, discharge, 33,200 ft^3/s (940 m^3/s), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of slope-area measurement of peak flow.

REMARKS.--Records good. Some daily fluctuation caused by diversion dam above station and sawmill at Dee. Diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1318: 1899. WSP 1935: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	1,730	1,670	1,630	3,540	1,470	2,100	1,630	1,540	1,530	853	547
2	320	1,070	1,530	1,480	2,760	1,440	2,000	1,530	1,760	1,340	853	527
3	333	858	1,530	1,380	2,300	1,340	1,800	1,460	1,940	1,240	853	527
4	320	804	1,410	1,280	2,540	1,380	1,700	1,490	2,920	1,280	862	540
5	309	738	1,270	1,220	2,090	2,380	1,800	1,640	3,310	1,340	834	509
6	368	679	1,300	1,160	1,850	2,080	1,900	1,930	2,520	1,290	762	464
7	415	640	3,210	1,150	1,690	1,620	1,800	2,210	2,130	1,180	685	444
8	361	662	2,550	1,130	1,590	1,440	1,700	2,390	1,840	1,190	641	438
9	341	1,790	1,850	1,090	1,510	1,330	1,700	2,210	1,720	1,220	622	485
10	330	2,300	1,560	1,120	1,440	1,240	2,000	2,200	1,730	1,100	625	494
11	324	2,840	1,420	1,170	1,400	1,320	2,400	2,450	1,950	1,060	657	441
12	326	3,350	1,420	1,200	1,360	1,300	2,300	2,500	2,190	991	622	419
13	339	2,670	1,540	2,180	1,300	1,270	1,900	1,950	2,350	955	576	403
14	335	1,990	1,530	4,360	1,440	1,250	1,600	1,820	2,510	997	544	397
15	324	2,620	1,870	15,000	1,440	1,420	1,500	1,740	2,500	1,020	524	397
16	318	3,810	3,490	13,000	1,640	1,470	1,460	1,590	2,330	950	544	403
17	315	2,260	4,420	7,190	1,550	1,730	1,410	1,460	2,400	1,050	534	400
18	313	1,660	2,450	5,380	1,720	1,590	1,450	1,400	2,440	1,220	562	405
19	311	1,320	2,190	5,280	2,770	1,400	1,440	1,350	2,380	1,200	565	411
20	377	1,340	2,810	3,690	2,080	1,300	1,430	1,310	2,170	1,120	544	411
21	425	1,300	3,890	2,990	1,810	1,200	1,490	1,290	1,970	1,060	518	416
22	396	1,180	3,070	2,680	1,640	1,180	1,590	1,340	1,890	1,020	512	422
23	394	1,100	3,250	2,690	1,510	1,100	1,630	1,400	1,730	960	544	436
24	586	1,120	3,940	2,630	1,420	1,100	1,600	1,530	1,580	905	537	414
25	640	1,260	4,010	3,220	1,440	1,200	1,570	1,870	1,530	876	544	405
26	553	1,170	2,930	2,890	1,470	1,300	1,470	2,240	1,420	862	554	405
27	488	1,440	3,310	2,720	1,440	1,500	1,440	2,110	1,360	848	558	392
28	623	2,740	3,290	2,710	1,500	1,700	1,440	1,890	1,360	862	576	384
29	669	2,310	2,630	2,570	------	2,000	1,440	1,700	1,380	930	595	387
30	566	1,850	2,110	2,850	------	2,200	1,550	1,570	1,510	945	572	384
31	1,990	------	1,850	3,690	------	2,200	------	1,520	------	891	569	------
TOTAL	14,017	50,601	75,850	102,710	50,240	46,420	50,610	54,720	60,360	33,432	19,341	13,107
MEAN	452	1,687	2,447	3,313	1,794	1,497	1,687	1,765	2,012	1,078	624	437
MAX	1,990	3,810	4,420	15,000	3,540	2,380	2,400	2,500	3,310	1,530	862	547
MIN	309	640	1,270	1,090	1,300	1,100	1,410	1,290	1,360	848	512	384
AC-FT	27,800	100,400	150,400	203,709	99,650	92,070	100,400	108,500	119,700	66,310	38,360	26,000

CAL YR 1973 TOTAL 316,408 MEAN 867 MAX 5,250 MIN 219 AC-FT 627,600
WTR YR 1974 TOTAL 571,408 MEAN 1,566 MAX 15,000 MIN 309 AC-FT 1,133,000

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1830	7.80	4,910	12-24	2030	9.07	7,150
11-16	0600	7.71	4,770	1-15	1800	14.48	19,700
12-17	0700	7.97	5,180				

14128600 COLUMBIA RIVER AT STEVENSON, WASH.

LOCATION.--Lat 45°41'58", long 121°52'02", in NW¼SE¼ sec.36, T.3 N., R.7½ E., Skamania County, on right bank 0.9 mi (1.4 km) east of Stevenson, and at mile 151.3 (243.4 km).

DRAINAGE AREA.--239,800 mi^2 (621,100 km^2), approximately.

PERIOD OF RECORD.--October 1973 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum gage height, 79.79 ft (24.320 m) June 20; minimum, 70.81 ft (21.583 m) Nov.11.

REMARKS.--Flow regulated by many reservoirs upstream.

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	74.12	72.62	73.59	74.54	72.48	73.49	75.58	72.93	74.22	74.24	71.94	72.85
2	74.33	72.31	73.40	74.26	72.96	73.68	75.47	73.98	74.72	74.90	72.99	74.21
3	74.69	73.20	73.95	74.01	72.63	73.25	75.37	73.64	74.50	75.50	71.20	73.73
4	74.24	73.17	73.59	74.48	73.05	73.62	75.44	72.63	74.07	74.85	71.35	73.58
5	73.82	72.25	72.82	74.05	71.86	73.29	75.97	74.23	75.22	75.64	72.08	73.50
6	74.07	73.12	73.61	74.01	71.47	72.82	75.63	73.41	74.69	75.50	73.42	74.15
7	74.26	73.55	73.82	74.12	71.47	72.29	75.63	73.12	74.59	75.57	71.23	73.33
8	74.61	73.39	74.09	73.99	71.88	72.84	74.55	72.15	73.33	75.06	72.16	74.06
9	74.22	72.09	72.89	74.11	72.20	72.80	74.89	73.58	74.21	75.47	71.83	74.10
10	74.09	72.76	73.36	73.36	72.42	72.83	75.38	73.01	74.24	75.86	72.45	74.25
11	73.89	72.84	73.57	74.01	70.81	72.83	75.60	74.19	75.05	75.03	72.56	73.87
12	74.23	73.15	73.62	74.40	72.65	73.41	75.66	73.43	74.41	75.45	72.61	74.08
13	74.40	73.37	73.80	74.77	73.24	74.01	75.17	72.84	73.84	75.29	72.11	73.05
14	74.52	73.72	74.13	73.96	72.15	73.20	75.75	74.26	75.04	75.61	71.95	73.58
15	74.22	72.57	73.34	74.98	71.73	73.32	75.63	74.01	74.53	77.60	74.73	76.12
16	74.50	72.40	73.48	74.98	72.81	73.98	74.79	71.66	73.26	77.79	76.17	77.15
17	74.34	73.25	73.64	74.45	72.58	73.24	75.20	71.48	73.53	77.27	75.19	76.31
18	74.30	72.35	73.47	74.29	72.38	73.08	74.43	72.72	73.59	78.24	76.41	77.35
19	74.17	73.19	73.59	74.67	71.70	73.21	75.35	72.25	74.10	77.62	76.34	76.95
20	74.20	73.32	73.76	74.03	72.06	72.66	75.20	72.32	74.20	77.24	76.67	77.00
21	74.55	73.57	73.96	74.02	71.52	72.61	75.88	73.17	74.47	76.91	75.93	76.53
22	74.30	73.25	73.98	74.29	73.09	73.47	75.77	74.55	75.32	77.15	75.87	76.49
23	74.16	73.34	73.82	74.23	72.96	73.54	75.67	73.15	74.06	77.72	77.01	77.26
24	73.76	72.20	72.91	74.00	72.62	73.32	76.07	74.52	75.33	77.50	76.22	76.81
25	73.83	72.94	73.39	74.22	72.69	73.45	75.59	72.62	73.90	76.63	75.95	76.29
26	74.12	72.38	73.18	73.66	71.20	72.41	75.20	72.22	73.77	77.02	76.35	76.69
27	74.45	73.44	73.90	73.95	72.68	73.28	74.68	72.75	73.53	77.38	76.35	76.81
28	74.04	73.43	73.81	74.65	72.39	73.34	74.45	73.17	73.75	76.46	75.54	75.95
29	73.71	73.04	73.39	74.64	72.85	73.90	75.21	74.12	74.74	76.09	75.53	75.73
30	74.40	72.80	73.51	74.48	72.58	73.80	75.36	72.40	73.76	77.27	75.67	76.58
31	74.77	73.33	74.06	---	---	---	75.35	72.94	73.77	76.36	74.57	75.49
MONTH	74.77	72.09	73.59	74.98	70.81	73.23	76.07	71.48	74.24	78.24	71.20	75.28

14128600 COLUMBIA RIVER AT STEVENSON, WASH.

GAGE HEIGHT (FT.) . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	76.37	75.39	75.89	75.95	72.91	74.50	75.42	73.49	74.53	76.77	75.77	76.17
2	75.80	75.04	75.54	76.17	74.17	74.79	76.07	74.23	75.14	75.93	75.44	75.71
3	76.36	75.13	75.76	75.57	72.68	73.95	75.85	75.15	75.48	76.44	75.81	76.19
4	76.85	75.44	75.97	75.61	72.96	74.44	75.32	74.46	74.97	76.88	76.17	76.43
5	76.65	74.50	75.25	75.91	72.48	74.35	75.16	74.21	74.55	76.92	76.59	76.75
6	75.76	73.65	74.53	76.40	71.88	74.48	74.40	73.68	74.03	76.82	76.30	76.67
7	75.29	72.51	74.14	75.92	72.96	74.48	75.63	74.23	74.67	77.16	76.51	76.74
8	74.92	72.93	73.82	76.09	73.78	75.09	75.65	74.00	74.54	77.18	76.41	76.85
9	75.14	73.43	74.15	75.52	73.74	74.78	74.68	73.91	74.32	77.24	76.79	77.00
10	76.32	73.97	74.69	74.48	71.53	72.26	74.68	73.91	74.40	77.44	76.81	77.09
11	76.34	74.43	75.47	75.25	71.68	73.36	75.21	74.20	74.72	77.41	76.67	77.00
12	75.92	73.79	74.46	75.74	72.10	73.95	75.19	73.97	74.69	77.38	76.10	76.61
13	74.71	72.19	73.17	75.81	72.26	74.26	75.57	74.52	74.97	76.37	75.64	76.03
14	75.19	72.13	74.06	75.79	74.46	75.06	75.60	74.84	75.23	76.25	75.14	75.75
15	76.34	72.23	74.56	74.98	74.07	74.52	74.99	74.21	74.64	76.06	75.14	75.65
16	75.98	72.59	74.42	75.17	73.12	73.83	75.53	74.58	7 .04	75.72	75.05	75.32
17	76.24	73.64	75.01	75.39	73.27	74.14	75.22	74.12	74.74	76.13	75.47	75.76
18	75.61	71.65	73.88	75.56	73.43	74.76	75.02	73.99	74.47	75.73	74.74	75.31
19	75.97	72.76	74.49	74.57	73.12	73.83	75.84	74.95	75.60	75.74	74.48	75.07
20	75.41	72.33	73.49	75.02	72.10	73.05	75.79	75.08	75.45	75.86	75.41	75.63
21	76.14	73.51	74.95	75.12	73.69	74.35	75.75	74.91	75.31	75.94	75.42	75.69
22	75.92	74.01	74.96	75.99	72.92	74.48	75.54	74.51	75.10	75.86	74.93	75.26
23	76.42	74.15	75.05	76.07	74.49	75.12	74.66	73.83	74.24	75.56	75.15	75.36
24	74.82	73.27	74.17	75.24	71.80	73.26	75.61	74.32	74.72	75.42	74.98	75.19
25	75.86	73.26	74.77	75.18	72.51	73.91	75.73	73.52	74.53	75.37	74.97	75.14
26	75.55	73.39	74.86	75.21	72.10	74.05	75.01	74.01	74.62	75.65	75.04	75.45
27	75.27	71.76	73.95	75.65	73.41	74.66	76.07	74.13	75.31	76.47	74.99	75.63
28	75.05	72.70	73.58	75.57	74.06	74.63	75.85	75.06	75.50	76.48	76.01	76.21
29	---	---	---	75.78	72.62	73.87	76.51	75.80	76.24	76.46	75.67	75.99
30	---	---	---	75.92	74.19	75.09	76.98	76.32	76.57	77.29	76.04	76.63
31	---	---	---	75.82	74.49	75.00	---	---	---	76.47	75.83	76.15
MONTH	76.85	71.65	74.60	76.40	71.53	74.26	76.98	73.49	74.94	77.44	74.48	76.01

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	76.16	75.52	75.93	78.38	77.53	77.95	75.72	73.80	74.66	74.51	73.12	73.91
2	76.34	75.81	76.12	77.93	77.46	77.74	75.26	72.29	74.02	74.62	72.56	73.69
3	76.08	75.68	75.88	77.83	77.49	77.67	75.12	73.75	74.54	74.78	72.87	74.02
4	76.86	75.79	76.40	77.73	77.33	77.57	74.91	72.95	73.89	74.65	72.39	73.56
5	77.18	76.56	76.84	77.75	76.93	77.40	74.53	72.83	73.94	74.62	72.67	73.88
6	76.92	76.39	76.62	77.01	76.53	76.77	74.91	72.79	74.03	74.71	72.18	73.57
7	77.05	76.51	76.75	77.00	76.29	76.61	74.89	72.74	73.99	74.59	73.07	73.83
8	76.85	76.42	76.60	76.46	75.86	76.20	74.75	73.70	74.32	74.65	73.07	73.76
9	76.91	76.49	76.67	76.08	75.33	75.63	74.65	73.02	73.81	74.57	72.33	73.46
10	76.89	76.24	76.63	75.65	74.93	75.34	74.81	73.56	74.28	74.57	72.91	73.86
11	76.93	76.25	76.55	75.95	75.05	75.53	74.45	72.57	73.30	74.55	72.78	73.98
12	77.23	76.47	76.69	75.84	74.46	75.19	74.99	72.66	74.21	74.95	73.19	74.19
13	77.31	76.80	77.04	75.54	74.62	75.02	75.22	73.60	74.44	74.95	72.18	74.13
14	77.50	77.01	77.25	75.54	73.96	74.64	74.88	72.90	73.98	74.76	72.29	73.15
15	78.04	77.25	77.55	75.22	74.18	74.72	74.72	72.96	73.91	73.47	72.33	72.93
16	78.29	77.74	78.01	75.07	74.31	74.66	74.66	72.84	74.06	74.48	72.25	73.23
17	78.34	77.90	78.14	75.00	73.78	74.55	74.66	72.51	73.69	74.61	73.18	73.79
18	78.69	78.15	78.44	75.09	73.75	74.64	74.60	73.44	73.96	74.74	72.75	73.71
19	78.96	78.33	78.65	75.05	73.40	74.24	74.79	72.29	73.65	74.87	73.26	74.11
20	79.79	78.68	79.22	75.32	74.39	74.82	74.70	73.11	73.92	74.75	72.49	73.76
21	79.70	79.37	79.54	75.22	74.36	74.77	74.68	72.59	73.69	74.07	72.60	73.32
22	79.53	79.15	79.29	75.25	73.40	74.21	74.86	72.91	73.95	74.38	73.25	73.67
23	79.20	78.93	79.10	75.17	73.91	74.66	74.58	72.33	73.43	74.55	72.78	73.33
24	79.45	78.90	79.19	75.84	74.37	75.27	74.28	72.93	73.70	74.70	73.02	73.88
25	79.49	79.20	79.34	75.56	73.94	74.84	74.30	73.29	73.77	74.76	73.39	74.04
26	79.49	78.80	79.14	75.35	73.62	74.34	74.38	72.73	73.60	74.65	73.09	73.91
27	79.07	78.76	78.89	75.12	73.05	74.08	74.79	72.72	73.74	74.93	74.06	74.36
28	79.39	78.63	79.08	75.14	73.16	74.21	75.50	72.56	74.08	73.99	73.59	73.77
29	78.70	77.69	78.20	75.03	72.61	74.05	74.73	72.98	74.11	74.03	73.48	73.79
30	78.09	77.29	77.70	75.40	72.86	74.10	74.32	72.38	73.39	74.48	72.68	73.61
31	---	---	---	75.90	72.14	74.10	74.67	72.62	73.84	---	---	---
MONTH	79.79	75.52	77.71	78.38	72.14	75.33	75.72	72.29	73.93	74.95	72.18	73.74
YEAR	79.79	70.81	74.74									

14128890 COLUMBIA RIVER NEAR BONNEVILLE, OREG.

LOCATION.--Lat 45°37'35", long 121°58'22", in sec.29, T.2 N., R.7 E., Multnomah County, on left bank 0.2 mi (0.3 km) upstream from Moffett Creek, 2.2 mi (3.5 km) downstream from Bonneville Dam, at mile 143.5 (230.9 km).

DRAINAGE AREA.--239,900 mi^2 (621,300 km^2), approximately.

PERIOD OF RECORD.--October 1973 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum gage height, 33.12 ft (10.095 m) June 22; minimum, 7.70 ft (2.347 m) Oct. 6.

REMARKS.--Flow regulated by many reservoirs upstream.

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.35	8.91	11.52	12.89	12.39	12.62	15.00	14.10	14.34	18.49	14.80	16.06
2	12.25	9.65	11.51	12.51	12.15	12.32	14.24	13.54	13.88	20.46	14.28	17.48
3	11.77	9.52	10.99	12.28	11.89	12.10	13.65	12.79	13.27	20.36	14.73	17.28
4	12.18	10.92	12.00	12.19	10.33	11.77	14.87	13.02	13.64	19.96	14.67	17.23
5	11.17	9.51	10.55	12.37	11.87	12.13	16.76	12.98	14.82	18.64	13.73	14.93
6	10.93	7.70	9.45	12.55	12.08	12.25	16.23	13.37	14.32	15.57	12.49	13.47
7	9.30	7.90	8.60	12.41	9.52	11.67	18.83	13.39	15.56	15.85	13.01	14.77
8	11.68	---	---	11.85	8.00	10.02	17.44	13.66	15.07	16.90	12.91	15.27
9	12.10	9.35	11.05	13.03	8.10	10.90	18.43	12.64	14.76	16.85	13.36	15.12
10	10.77	9.23	10.10	13.50	9.47	11.47	17.51	14.53	15.72	16.73	13.86	15.55
11	11.70	8.65	10.33	14.10	10.07	12.20	18.55	14.58	16.39	16.44	13.81	15.43
12	11.45	9.24	10.56	14.73	10.73	14.32	17.76	15.45	16.12	14.49	12.85	13.44
13	11.21	8.15	9.73	14.73	11.39	13.61	16.08	15.25	15.68	14.79	13.74	14.21
14	10.16	7.72	8.75	14.83	13.82	14.57	18.03	15.39	17.07	17.67	12.68	14.47
15	12.30	7.95	10.77	17.72	13.21	15.15	17.81	16.17	16.91	25.86	15.71	21.30
16	12.09	7.88	9.75	19.23	15.57	17.35	16.17	14.33	15.55	27.48	25.91	26.84
17	12.27	10.23	11.77	18.67	15.48	16.27	17.71	15.58	16.57	29.04	27.33	27.99
18	11.77	9.20	10.42	15.52	14.78	15.20	19.12	16.25	17.40	30.35	28.99	29.69
19	11.88	8.40	10.50	14.96	14.12	14.69	20.14	15.82	18.43	30.23	29.41	29.94
20	10.81	7.72	9.07	14.64	12.99	14.27	21.09	17.05	19.29	29.47	27.56	28.61
21	10.37	8.05	8.95	14.66	12.50	13.80	20.04	18.86	19.64	27.64	26.87	27.15
22	11.78	8.35	10.22	14.14	11.77	13.00	21.88	19.78	21.22	27.01	26.34	26.82
23	12.85	9.83	11.91	14.58	13.35	13.96	19.84	17.43	18.36	27.04	26.66	26.89
24	12.60	9.72	11.60	14.38	11.97	13.04	21.28	17.09	19.19	26.95	26.55	26.72
25	12.88	9.76	11.65	14.20	11.67	12.43	21.38	19.39	20.37	27.11	26.60	26.84
26	12.06	8.64	10.94	14.43	14.02	14.19	21.12	18.58	19.57	26.95	26.27	26.71
27	10.80	7.91	9.26	14.57	12.82	13.95	21.42	18.68	19.75	26.30	25.73	26.02
28	10.41	---	---	14.75	13.27	14.37	22.04	21.18	21.64	25.83	25.30	25.58
29	12.19	7.85	10.45	14.66	14.33	14.50	22.31	20.03	21.49	25.34	24.90	25.18
30	11.99	7.88	10.26	14.51	14.05	14.23	21.84	19.23	19.91	24.89	24.19	24.64
31	12.83	10.99	12.19	---	---	---	19.66	18.43	18.91	24.25	23.11	23.39
MONTH	12.88	7.70	10.51	19.23	8.00	13.41	22.31	12.64	17.25	30.35	12.49	21.45

14128890 COLUMBIA RIVER NEAR BONNEVILLE, OREG.--Continued

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.55	23.04	23.26	20.61	15.63	18.31	22.57	20.33	21.56	26.83	26.36	26.67
2	23.54	23.32	23.42	21.17	19.47	20.46	24.06	22.13	23.05	27.07	26.30	26.60
3	23.65	23.20	23.41	20.03	10.13	18.76	24.32	23.52	23.92	27.20	26.77	27.02
4	23.85	23.33	23.66	21.65	19.32	20.28	24.25	23.27	23.94	26.92	26.68	26.79
5	23.78	22.86	23.23	21.64	18.45	20.00	23.73	21.98	22.84	26.95	26.64	26.75
6	22.92	22.29	22.65	21.41	10.83	18.74	22.05	21.30	21.83	27.32	26.77	27.03
7	22.79	18.12	21.14	21.41	18.49	19.10	21.97	20.96	21.80	27.65	27.09	27.40
8	21.14	19.86	20.60	20.06	11.95	19.12	22.91	21.84	22.40	27.65	27.44	27.56
9	20.11	11.85	19.68	19.94	18.54	19.16	22.46	21.85	22.21	27.92	27.41	27.64
10	20.09	19.78	19.94	19.88	15.03	17.01	22.39	21.67	22.13	27.58	26.48	27.16
11	21.26	19.69	20.42	18.51	14.57	16.62	23.01	22.22	22.60	26.48	25.84	26.14
12	21.19	18.95	20.32	19.55	18.13	18.46	23.00	22.44	22.85	25.88	23.75	24.98
13	20.67	17.62	18.80	19.71	10.06	18.52	23.11	22.93	23.02	23.73	23.01	23.36
14	20.95	14.63	17.69	19.82	18.62	19.26	23.03	22.05	22.72	23.06	22.25	22.74
15	19.62	14.40	17.52	20.24	19.70	20.02	22.09	20.91	21.56	22.80	22.43	22.62
16	19.63	16.80	17.38	20.45	18.12	19.84	22.49	20.78	21.54	22.71	22.06	22.44
17	18.26	15.21	16.07	18.76	16.26	16.99	23.39	22.24	22.68	22.80	21.35	21.86
18	20.78	14.49	18.10	21.34	18.77	20.56	23.20	22.71	22.97	23.40	22.71	23.18
19	19.98	15.96	18.03	21.25	18.93	19.90	23.37	22.90	23.23	23.37	23.07	23.25
20	20.71	17.59	19.14	21.22	17.02	19.38	23.68	23.20	23.40	23.43	22.52	22.94
21	20.64	17.27	19.05	20.67	19.48	19.87	23.35	22.25	22.81	22.92	22.54	22.75
22	20.73	19.25	19.56	19.62	18.24	19.00	22.73	22.07	22.46	22.70	22.29	22.53
23	21.26	20.54	20.90	19.89	19.49	19.70	23.10	22.19	22.66	22.48	22.25	22.35
24	20.58	17.93	19.39	19.73	16.02	17.50	23.20	20.63	21.73	23.08	22.04	22.42
25	20.20	17.01	18.48	20.68	16.53	19.03	21.07	20.25	20.48	23.52	23.01	23.29
26	22.10	17.86	20.40	20.70	16.77	18.99	24.68	21.05	22.50	23.50	22.95	23.38
27	22.21	15.76	18.82	20.55	19.03	19.38	25.58	24.82	25.19	24.54	23.16	23.65
28	19.67	15.33	18.51	22.23	19.04	20.69	26.35	25.36	25.68	25.52	24.46	24.95
29	---	---	---	21.93	17.04	20.26	26.34	25.85	26.07	25.68	24.94	25.24
30	---	---	---	21.90	20.28	21.47	26.82	26.25	26.58	26.74	25.68	26.32
31	---	---	---	21.72	20.03	20.79	---	---	---	25.97	25.01	25.35
MONTH	23.85	11.85	19.98	22.23	10.06	19.26	26.82	20.25	22.94	27.92	21.35	24.72

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.32	24.77	25.15	30.19	29.72	30.02	21.13	16.92	18.64	12.01	8.44	9.90
2	24.98	24.62	24.80	29.73	29.19	29.45	19.04	15.01	17.16	11.77	9.45	10.30
3	25.16	24.76	24.95	29.34	29.10	29.24	18.13	15.45	17.14	14.78	11.77	13.27
4	26.11	24.69	25.28	29.34	28.91	29.18	16.42	13.34	14.42	14.57	13.09	13.60
5	27.24	26.17	26.89	28.88	28.35	28.67	18.81	15.23	17.58	14.58	12.83	13.59
6	27.21	26.81	27.04	28.40	27.14	27.81	18.14	14.68	16.58	14.32	12.64	13.70
7	27.42	26.95	27.16	27.21	26.11	26.63	18.19	10.22	16.47	13.86	11.23	12.51
8	27.30	26.96	27.07	26.13	25.56	25.80	17.96	14.81	16.66	12.64	9.14	10.01
9	27.06	26.88	26.97	25.61	23.77	24.82	17.99	15.68	16.64	13.45	11.08	12.59
10	26.99	26.61	26.80	23.76	22.90	23.39	17.11	15.26	16.50	12.90	12.32	12.65
11	26.77	26.18	26.43	23.04	22.52	22.81	17.18	14.43	15.62	14.17	12.34	13.10
12	26.88	26.60	26.71	23.09	21.18	22.29	18.20	14.43	16.78	16.98	12.85	14.75
13	27.64	26.78	27.20	21.11	20.45	20.74	18.23	16.70	17.80	16.30	14.81	15.64
14	28.42	27.54	27.88	20.59	10.06	18.28	16.69	14.15	15.00	15.79	12.19	12.76
15	29.27	28.30	28.68	20.17	18.29	19.05	17.12	13.07	14.48	12.17	9.64	10.22
16	30.13	29.19	29.72	18.46	10.38	17.89	16.52	14.45	15.58	12.32	8.94	10.81
17	31.61	30.02	30.73	17.98	17.71	17.83	15.78	12.19	13.71	12.95	9.89	11.63
18	32.30	31.54	31.93	19.50	11.36	18.86	12.72	10.71	11.59	13.99	11.62	12.78
19	32.78	32.17	32.43	19.42	10.91	18.98	15.83	12.42	13.94	15.49	12.37	13.44
20	32.94	32.61	32.80	20.29	11.04	19.39	15.89	13.57	14.45	14.85	13.37	13.80
21	33.10	32.78	32.95	20.58	11.97	19.95	14.93	12.44	13.43	13.36	9.96	10.88
22	33.12	32.89	33.01	20.27	18.25	18.84	14.82	12.18	13.54	11.01	8.70	9.38
23	33.06	32.85	32.95	19.70	11.67	18.89	14.71	12.72	13.31	12.39	11.04	12.10
24	33.03	32.69	32.83	21.60	19.68	20.31	13.01	10.82	11.84	12.74	12.08	12.25
25	32.85	32.57	32.75	21.69	19.45	20.05	12.28	8.53	10.00	13.78	12.14	12.92
26	32.88	32.61	32.71	20.25	11.21	19.39	13.92	10.77	12.33	14.73	12.62	13.82
27	32.72	32.22	32.54	19.19	15.63	16.66	14.69	12.16	12.85	14.21	12.38	13.82
28	32.51	31.90	32.34	16.99	14.85	16.10	17.20	12.90	14.59	13.99	10.38	11.63
29	32.00	11.33	31.38	18.30	10.15	16.93	17.73	14.29	15.73	12.12	9.46	10.71
30	30.89	30.05	30.44	18.78	10.36	18.06	14.41	12.36	13.82	13.70	12.20	13.03
31	---	---	---	18.87	14.72	17.71	12.33	10.38	11.31	---	---	---
MONTH	33.12	11.33	29.35	30.19	10.06	21.74	21.13	8.53	14.82	16.98	8.44	12.38
YEAR	33.12	7.70	19.01									

14128910 COLUMBIA RIVER AT WARRENDALE, OREG.

LOCATION.--Lat 45°36'45", long 122°01'35", in NE¼SE¼ sec.35, T.2 N., R.6 E., Multnomah County, on left bank 0.1 mi (0.2 km) downstream from Tumult Creek, 1.0 mi (1.6 km) west of Warrendale, 5.1 mi (9.2 km) downstream from Bonneville Dam, and at mile 141.0 (226.9 km).

DRAINAGE AREA.--240,000 mi² (621,600 km²), approximately.

PERIOD OF RECORD.--October 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum recorded gage height, 28.48 ft (8.681) Jan. 18; minimum recorded, 5.92 ft (1.804) Oct. 8.
Period of record: Maximum recorded gage height, 30.91 ft (9.421 m) June 20, 1972; minimum, 4.58 ft (1.396 m) Sept. 9, 1973.

REMARKS.--Flow regulated by many reservoirs upstream. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.38	6.92	8.30	10.24	9.57	9.85	12.44	12.08	12.27	---	---	---
2	9.08	7.60	8.51	9.67	9.15	9.38	12.21	11.36	11.77	---	---	---
3	8.66	7.41	8.03	9.30	8.88	9.08	11.45	10.80	11.13	---	---	---
4	8.90	8.53	8.72	9.26	8.34	8.89	11.74	10.76	11.12	---	---	---
5	8.53	6.83	7.70	9.35	8.68	9.06	13.14	10.55	11.72	---	---	---
6	8.02	5.97	6.86	9.60	8.99	9.25	12.98	10.98	11.73	---	---	---
7	6.99	6.15	6.58	9.40	8.29	9.01	15.16	11.19	12.70	---	---	---
8	8.64	5.92	7.34	8.89	6.69	7.66	14.73	12.30	13.30	---	---	---
9	9.10	7.58	8.41	10.58	6.73	8.65	---	---	---	---	---	---
10	8.13	7.29	7.79	11.11	8.40	9.56	---	---	---	12.79	11.38	12.16
11	8.89	6.70	7.96	11.96	9.13	10.38	---	---	---	12.87	11.28	12.07
12	9.02	7.22	8.17	11.81	9.80	10.99	---	---	---	11.61	10.08	10.59
13	8.99	6.65	7.86	12.88	10.58	11.85	---	---	---	11.90	11.18	11.55
14	8.09	6.20	7.02	12.79	12.34	12.59	---	---	---	13.04	11.02	11.85
15	9.45	6.43	8.07	14.93	11.90	12.93	---	---	---	22.72	12.94	17.39
16	9.24	6.32	7.49	16.79	14.06	15.31	---	---	---	25.52	22.83	24.47
17	9.25	8.58	8.96	16.70	14.12	14.96	---	---	---	26.91	25.48	26.07
18	8.89	7.27	7.93	14.13	13.14	13.69	---	---	---	28.48	26.92	27.75
19	8.70	6.93	7.88	13.12	12.07	12.74	---	---	---	28.45	27.74	28.21
20	7.97	6.00	6.97	12.41	11.80	12.23	---	---	---	27.74	25.74	26.87
21	7.49	6.21	6.87	12.50	11.19	11.90	---	---	---	25.83	24.59	25.03
22	8.63	6.91	7.66	11.89	10.50	11.16	---	---	---	24.65	24.14	24.34
23	10.06	7.75	9.09	12.43	11.34	11.80	---	---	---	24.35	24.16	24.26
24	9.61	8.28	9.17	12.29	10.62	11.40	---	---	---	24.23	23.87	24.05
25	10.07	7.86	9.02	11.93	10.18	10.78	---	---	---	24.27	23.98	24.14
26	9.23	7.08	8.47	12.28	11.74	11.98	---	---	---	24.27	23.67	24.07
27	8.53	6.41	7.33	12.42	11.13	11.87	---	---	---	23.68	23.10	23.40
28	8.29	6.07	7.07	12.72	11.70	12.32	---	---	---	23.19	22.61	22.93
29	9.23	6.23	7.83	12.68	12.33	12.50	---	---	---	22.65	22.14	22.45
30	9.05	6.23	7.78	12.55	11.96	12.16	---	---	---	22.17	21.57	21.89
31	10.15	8.57	9.26	---	---	---	---	---	---	21.59	20.48	20.84
MONTH	10.15	5.92	7.93	16.79	6.69	11.19	---	---	---	---	---	---

14128910 COLUMBIA RIVER AT WARRENDALE, OREG.--Continued

GAGF HEIGHT (FT.) , WATER YFAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.72	20.42	20.55	17.39	17.39	17.40	19.18	17.95	18.54	23.46	23.03	23.32
2	20.74	20.56	20.66	17.39	17.39	17.40	20.83	19.20	19.90	23.68	22.98	23.22
3	20.71	20.32	20.51	17.39	17.39	17.40	21.30	20.63	20.92	23.88	23.53	23.71
4	20.91	20.51	20.73	18.11	16.57	17.30	21.27	20.62	21.01	23.59	23.40	23.50
5	20.84	20.02	20.37	18.18	16.08	17.05	20.73	19.30	20.10	23.57	23.31	23.45
6	20.01	19.38	19.67	18.03	14.58	16.17	19.33	18.65	19.00	23.98	23.45	23.70
7	19.64	16.64	18.31	17.67	15.83	16.36	18.95	18.54	18.77	24.38	23.88	24.12
8	18.13	16.92	17.58	16.76	15.74	16.16	19.65	18.64	19.18	24.43	24.24	24.35
9	16.91	16.44	16.66	16.79	15.69	16.09	19.34	18.88	19.09	24.62	24.19	24.41
10	16.72	16.44	16.58	16.58	12.83	14.66	19.08	18.73	18.94	24.44	23.33	24.05
11	17.46	16.43	16.83	15.01	12.06	13.43	19.77	19.00	19.35	23.39	22.67	23.02
12	17.40	16.38	16.88	15.83	14.92	15.19	19.78	19.43	19.65	22.70	20.75	21.94
13	16.64	14.78	15.65	16.10	14.65	15.48	19.79	19.60	19.71	20.78	19.64	20.12
14	16.15	12.49	14.28	16.21	15.19	15.70	19.69	18.93	19.44	19.70	19.07	19.35
15	15.95	12.26	14.22	16.85	16.18	16.55	18.92	17.70	18.37	19.29	18.95	19.10
16	15.54	15.08	15.12	17.29	15.91	16.88	18.72	17.43	17.96	19.10	18.66	18.92
17	15.08	15.08	15.09	15.87	13.92	14.62	19.72	18.56	18.97	18.92	17.90	18.32
18	16.79	15.08	15.33	17.97	14.92	17.02	19.63	19.30	19.46	19.76	18.86	19.50
19	16.80	16.80	16.81	17.31	16.23	16.77	19.83	19.38	19.65	19.84	19.58	19.72
20	17.00	16.80	16.95	17.42	14.78	16.41	20.10	19.75	19.89	19.72	19.21	19.48
21	17.34	17.00	17.04	16.87	15.48	16.42	19.81	18.87	19.42	19.39	19.12	19.27
22	17.39	17.34	17.39	16.35	15.38	15.77	19.16	18.63	18.93	19.25	18.84	19.07
23	17.39	17.39	17.40	16.40	15.87	16.22	19.45	18.88	19.13	18.93	18.76	18.85
24	17.39	17.39	17.40	16.36	13.28	14.69	19.67	17.45	18.53	19.38	18.60	18.86
25	17.39	17.39	17.40	16.82	14.01	15.20	17.46	16.88	17.12	19.97	19.33	19.72
26	17.39	17.39	17.40	16.95	14.63	15.80	20.67	17.22	18.57	20.04	19.79	19.93
27	17.39	17.39	17.40	16.71	15.70	16.00	21.94	20.68	21.53	20.84	19.80	20.10
28	17.39	17.39	17.40	18.23	15.88	17.10	22.74	21.90	22.14	21.97	20.84	21.35
29	---	---	---	18.08	15.44	17.22	22.75	22.42	22.64	22.08	21.57	21.83
30	---	---	---	18.77	17.21	18.24	23.39	22.69	23.12	23.30	21.86	22.84
31	---	---	---	18.59	17.34	17.91	---	---	---	22.68	21.76	22.12
MONTH	20.91	12.26	17.41	18.77	12.08	16.27	23.39	16.88	19.63	24.62	17.90	21.33

	JUNF			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.95	21.59	21.82	---	---	---	---	---	---	8.96	6.45	7.70
2	21.60	21.30	21.44	---	---	---	---	---	---	8.67	7.00	7.57
3	---	---	---	---	---	---	---	---	---	11.20	8.68	9.78
4	---	---	---	---	---	---	---	---	---	11.20	10.04	10.51
5	---	---	---	---	---	---	---	---	---	11.21	9.73	10.29
6	---	---	---	---	---	---	---	---	---	11.16	9.95	10.49
7	---	---	---	---	---	---	---	---	---	10.80	8.97	9.65
8	---	---	---	---	---	---	---	---	---	9.78	6.89	7.66
9	---	---	---	---	---	---	---	---	---	9.84	8.27	9.25
10	---	---	---	---	---	---	---	---	---	9.88	9.17	9.56
11	---	---	---	---	---	---	---	---	---	10.38	9.22	9.71
12	---	---	---	---	---	---	11.14	---	---	12.52	10.00	10.87
13	---	---	---	---	---	---	14.37	13.77	14.10	12.43	11.46	11.96
14	---	---	---	---	---	---	13.76	11.10	12.00	12.17	9.26	10.09
15	---	---	---	---	---	---	12.04	10.47	11.12	9.49	7.39	8.20
16	---	---	---	---	---	---	12.81	11.31	12.02	9.41	6.95	8.19
17	---	---	---	---	---	---	12.70	10.08	11.05	9.99	7.65	8.86
18	---	---	---	---	---	---	9.93	8.56	9.09	10.55	9.06	9.74
19	---	---	---	15.87	15.53	15.72	12.12	9.47	10.45	11.55	9.43	10.12
20	---	---	---	16.48	15.51	15.91	12.17	10.67	11.25	11.58	10.14	10.61
21	---	---	---	16.87	15.72	16.35	11.69	9.99	10.44	10.70	7.50	8.56
22	---	---	---	16.50	14.93	15.46	11.30	9.79	10.31	8.36	6.67	7.22
23	---	---	---	15.84	14.91	15.39	11.46	9.76	10.31	9.04	7.58	8.73
24	---	---	---	17.54	15.85	16.41	10.12	8.35	9.05	9.26	8.80	9.01
25	---	---	---	17.81	15.86	16.55	9.19	6.70	7.56	10.07	8.96	9.59
26	---	---	---	16.52	15.45	15.89	9.90	7.68	8.97	10.77	9.62	10.37
27	---	---	---	15.55	12.46	13.56	10.32	9.18	9.50	10.71	9.98	10.35
28	---	---	---	13.29	11.93	12.59	12.72	9.84	10.80	10.62	8.05	9.06
29	---	---	---	14.33	12.04	13.20	13.23	11.51	12.27	8.92	7.19	7.85
30	---	---	---	---	---	---	11.69	9.99	10.83	9.63	8.89	9.18
31	---	---	---	---	---	---	9.90	8.00	8.77	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	12.52	6.45	9.35
YEAR	28.48	5.92	14.93									

14128950 COLUMBIA RIVER AT MULTNOMAH FALLS, OREG.

LOCATION.--Lat 45°34'45", long 122°06'55", in SW¼SE¼ sec.7, T.1 N., R.6 E., Multnomah County, on left bank at Multnomah Falls, 0.7 mi (1.1 km) upstream from mouth of Multnomah Creek, 2.1 mi (3.4 km) downstream from Oneonta Creek, and at mile 136.2 (219.1 km).

DRAINAGE AREA.--240,000 mi² (621,600 km²), approximately.

PERIOD OF RECORD.--November 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum gage height, 30.60 ft (9.327 m) June 21; minimum, 5.93 ft (1.807 m) Oct. 6.
Period of record: Maximum recorded gage height, 31.11 ft (9.482 m) June 19, 20, 1972; minimum, 4.55 ft (1.387 m) Sept. 9, 1973.

REMARKS.--Flow regulated by many reservoirs upstream.

GAGE HEIGHT (FT.) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.33	6.82	8.23	10.15	9.59	9.83	12.38	12.07	12.24	16.06	12.87	14.18
2	9.03	7.48	8.44	9.65	9.16	9.39	12.16	11.37	11.75	16.55	12.26	14.13
3	8.66	7.36	7.97	9.29	8.91	9.08	11.37	10.76	11.10	16.62	12.77	14.43
4	8.79	8.55	8.68	9.22	8.29	8.87	11.76	10.79	11.12	15.65	12.49	14.14
5	8.50	6.81	7.66	9.32	8.69	9.06	13.11	10.58	11.71	15.31	11.52	12.51
6	7.88	5.93	6.80	9.56	8.97	9.23	12.97	11.02	11.76	11.78	9.86	10.66
7	6.98	6.14	6.53	9.37	8.30	9.01	15.11	11.21	12.62	12.11	11.00	11.60
8	8.58	5.94	7.30	8.89	6.71	7.68	14.92	11.99	12.99	13.14	10.39	11.87
9	9.04	7.57	8.36	10.62	6.79	8.67	14.54	10.73	12.10	13.28	10.82	12.00
10	8.11	7.31	7.74	11.12	8.46	9.59	14.47	12.38	13.12	12.83	11.39	12.29
11	8.78	6.78	7.90	11.96	9.20	10.42	15.38	12.18	13.45	12.88	11.30	12.15
12	8.97	7.21	8.12	12.78	9.79	11.45	15.17	13.14	13.71	11.77	10.16	10.65
13	9.01	6.62	7.84	12.80	10.55	11.85	14.00	13.12	13.45	11.79	10.91	11.48
14	8.12	6.23	7.02	12.83	12.30	12.57	15.20	13.42	14.32	12.95	10.99	11.71
15	9.48	6.43	8.06	14.95	11.90	12.94	15.21	14.26	14.61	22.38	12.90	16.62
16	9.21	6.32	7.46	16.81	14.02	15.27	14.25	13.09	13.81	25.45	22.31	24.24
17	9.22	8.62	8.94	16.69	14.16	15.02	15.58	14.03	14.68	26.77	25.44	25.97
18	8.85	7.45	7.91	14.18	13.16	13.71	16.00	14.66	15.29	28.39	26.73	27.63
19	8.64	6.89	7.85	13.15	12.14	12.76	16.82	14.28	15.82	28.47	28.04	28.32
20	7.89	5.96	6.95	12.36	11.83	12.21	17.75	15.78	16.79	28.06	26.17	27.19
21	7.43	6.20	6.85	12.48	11.16	11.86	17.71	16.57	17.25	26.17	24.62	25.27
22	8.60	6.97	7.67	11.86	10.49	11.15	19.12	17.68	18.67	24.66	24.15	24.39
23	9.92	7.80	9.05	12.36	11.36	11.77	18.15	15.99	16.63	24.35	24.12	24.27
24	9.50	8.30	9.16	12.24	10.59	11.39	18.20	15.51	16.71	24.26	23.91	24.11
25	10.05	7.85	9.00	11.87	10.18	10.73	18.37	17.29	17.86	24.22	23.93	24.05
26	9.23	7.11	8.49	12.27	11.74	11.96	18.24	16.32	17.14	24.22	23.88	24.15
27	8.67	6.45	7.41	12.37	11.13	11.84	18.68	16.45	17.17	23.88	23.17	23.50
28	8.26	6.07	7.10	12.74	11.57	12.29	19.41	18.67	19.09	23.21	22.77	23.01
29	9.21	6.20	7.80	12.71	12.35	12.52	19.64	18.04	18.96	22.78	22.25	22.48
30	9.02	6.22	7.75	12.61	12.03	12.21	19.49	17.27	17.80	22.34	21.56	21.95
31	10.08	8.55	9.17	---	---	---	17.26	16.03	16.56	21.77	20.43	20.99
MONTH	10.08	5.93	7.91	16.81	6.71	11.21	19.64	10.58	14.84	28.47	9.86	18.77

14128950 COLUMBIA RIVER AT MULTNOMAH FALLS, OREG.--Continued

GAGE HEIGHT (FT.), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.64	20.34	20.44	15.50	13.72	14.62	19.10	17.84	18.47	23.41	23.10	23.31
2	20.67	20.56	20.62	17.88	16.77	17.40	20.79	19.15	19.85	23.64	23.03	23.23
3	20.61	20.33	20.46	16.76	15.53	16.25	21.25	20.64	20.89	23.83	23.57	23.72
4	20.76	20.50	20.64	18.04	16.37	16.75	21.26	20.65	21.03	23.60	23.48	23.54
5	20.80	20.07	20.50	18.12	16.18	17.18	20.78	19.29	20.14	23.59	23.38	23.48
6	20.09	19.33	19.76	17.99	14.53	16.13	19.27	18.62	18.96	23.96	23.47	23.70
7	19.58	16.52	18.62	17.66	15.76	16.32	18.88	18.54	18.77	24.34	23.93	24.13
8	18.29	17.51	17.84	16.73	15.73	16.12	19.67	18.73	19.19	24.43	24.29	24.36
9	17.51	16.41	16.75	16.73	15.68	16.07	19.23	18.82	19.03	24.63	24.22	24.41
10	16.65	16.42	16.56	16.54	12.82	14.68	18.99	18.69	18.88	24.45	23.44	24.08
11	16.98	16.36	16.52	14.91	12.09	13.38	19.67	18.96	19.27	23.44	22.65	23.01
12	17.39	16.36	16.85	15.62	14.90	15.09	19.71	19.44	19.61	22.65	20.79	21.91
13	17.30	14.66	16.09	15.99	14.58	15.41	19.80	19.66	19.74	20.73	19.63	20.08
14	15.39	12.39	14.14	16.20	15.20	15.69	19.68	18.90	19.48	19.62	19.00	19.30
15	16.04	12.21	14.17	16.82	16.20	16.55	18.90	17.66	18.33	19.15	18.98	19.05
16	15.48	13.68	14.26	17.22	15.91	16.86	18.68	17.38	17.89	19.05	18.66	18.89
17	13.81	12.38	12.92	15.90	13.89	14.58	19.65	18.68	18.98	18.85	17.87	18.26
18	16.19	12.20	14.09	17.89	14.86	16.98	19.61	19.28	19.39	19.66	18.85	19.46
19	16.72	13.87	15.15	17.39	16.19	16.75	19.73	19.35	19.59	19.78	19.57	19.68
20	16.97	15.38	16.26	17.44	14.76	16.44	20.00	19.70	19.84	19.65	19.18	19.44
21	17.05	14.65	15.61	16.88	15.41	16.35	19.73	18.84	19.40	19.32	19.12	19.24
22	17.27	16.29	16.64	16.23	15.27	15.70	19.09	18.63	18.87	19.17	18.84	19.03
23	17.84	16.33	17.36	16.30	15.83	16.17	19.44	18.92	19.10	18.92	18.74	18.83
24	17.39	15.47	16.56	16.29	13.25	14.65	19.57	17.40	18.49	19.34	18.56	18.81
25	16.49	14.36	15.24	16.78	13.99	15.11	17.41	16.84	17.07	19.91	19.35	19.69
26	18.37	15.30	16.73	16.91	14.64	15.78	20.62	17.18	18.50	19.96	19.77	19.89
27	18.45	13.87	15.77	16.63	15.67	15.96	21.93	20.65	21.49	20.79	19.77	20.05
28	16.25	13.86	15.47	18.13	15.86	17.01	22.73	21.89	22.12	21.93	20.79	21.32
29	---	---	---	18.06	15.36	17.22	22.76	22.45	22.65	22.00	21.60	21.79
30	---	---	---	16.70	17.19	18.19	23.35	22.72	23.12	23.30	21.89	22.83
31	---	---	---	18.57	17.40	17.89	---	---	---	22.69	21.78	22.14
MONTH	20.80	12.20	16.85	18.70	12.09	16.10	23.35	16.84	19.60	24.63	17.87	21.31

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.90	21.56	21.81	27.27	26.86	27.15	16.12	13.82	14.75	8.82	6.58	7.71
2	21.54	21.29	21.41	26.85	26.28	26.52	15.80	12.53	13.75	8.61	7.02	7.56
3	21.69	21.37	21.54	26.29	26.19	26.25	14.49	13.10	13.69	11.11	8.61	9.67
4	22.56	21.32	21.76	26.20	25.90	26.15	13.01	10.41	11.42	11.13	10.11	10.43
5	23.97	22.56	23.50	25.88	25.32	25.64	14.59	11.56	13.40	11.13	9.69	10.21
6	24.05	23.75	23.93	25.32	24.09	24.79	14.02	11.76	13.01	11.15	9.92	10.42
7	24.22	23.97	24.07	24.07	22.96	23.51	13.92	11.63	12.92	10.73	8.91	9.60
8	24.22	23.93	24.03	22.95	22.29	22.56	13.90	11.76	12.89	9.66	6.84	7.62
9	23.93	23.82	23.87	22.28	20.55	21.58	14.07	12.41	13.06	9.71	8.32	9.17
10	23.84	23.60	23.69	20.56	19.52	20.01	13.24	12.11	12.81	9.80	9.14	9.48
11	23.62	23.02	23.25	19.51	19.10	19.25	13.26	11.07	12.23	10.30	9.16	9.64
12	23.52	23.40	23.47	19.37	17.83	18.80	14.00	11.08	12.65	12.51	---	---
13	24.34	23.55	23.94	17.84	16.83	17.21	14.27	13.65	14.01	12.47	---	---
14	25.13	24.33	24.65	16.87	14.45	15.09	13.66	11.11	11.94	---	---	---
15	26.09	25.13	25.52	15.93	14.64	15.26	12.08	10.44	11.06	---	---	---
16	27.18	26.10	26.68	14.90	14.11	14.44	12.75	11.27	11.95	---	---	---
17	28.75	27.15	27.80	14.42	14.09	14.26	12.75	10.09	10.99	---	---	---
18	29.59	28.75	29.19	15.70	14.16	15.22	10.04	8.53	9.03	---	---	---
19	30.10	29.59	29.80	15.77	15.43	15.64	11.99	9.41	10.35	---	---	---
20	30.42	30.11	30.25	16.44	15.47	15.85	12.11	10.64	11.19	---	---	---
21	30.60	30.39	30.50	16.79	15.66	16.29	11.65	9.92	10.39	---	---	---
22	30.58	30.46	30.52	16.44	14.85	15.40	11.19	9.77	10.25	---	---	---
23	30.52	30.41	30.47	15.76	14.82	15.31	11.31	9.71	10.24	---	---	---
24	30.47	30.23	30.34	17.45	15.80	16.34	10.03	8.29	8.98	---	---	---
25	30.25	30.10	30.20	17.70	15.80	16.49	9.19	6.64	7.51	---	---	---
26	30.28	30.11	30.23	16.44	15.41	15.83	9.80	7.61	8.88	---	---	---
27	30.14	29.86	30.01	15.47	12.41	13.52	10.25	9.10	9.43	---	---	---
28	29.93	29.47	29.82	13.22	11.87	12.53	12.68	9.89	10.73	---	---	---
29	29.47	28.39	29.11	14.24	12.04	13.13	13.13	11.47	12.20	---	---	---
30	28.37	27.27	27.76	14.63	13.96	14.34	11.65	9.95	10.74	---	---	---
31	---	---	---	14.75	12.74	14.03	9.89	7.91	8.72	---	---	---
MONTH	30.60	21.29	26.43	27.27	11.87	18.33	16.12	6.64	11.45	---	---	---
YEAR	30.60	5.93	16.36									

14129400 COLUMBIA RIVER AT WASHOUGAL, WASH.

LOCATION.--Lat 45°34'30", long 122°21'10", in SE¼ sec.33, T.1 N., R.4 E., Clark County, on right bank on rock-fill point at south end of 17th Street, in Washougal, and at river mile 122.9 (197.7 km).

DRAINAGE AREA.--240,400 mi² (622,600 km²), approximately.

PERIOD OF RECORD.--October 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum gage height, 28.42 ft (8.662 m) June 21; minimum, 4.85 ft (1.478 m) Oct. 6.
Period of record: Maximum recorded gage height, 28.87 ft (8.800 m) June 19, 1972; minimum, 3.72 ft (1.134 m) Sept. 9, 1973.

REMARKS.--Flow regulated by many reservoirs upstream.

GAGE HEIGHT (FT.) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.93	5.55	6.75	8.78	8.22	8.44	11.38	11.04	11.21	14.86	12.01	13.32
2	7.87	6.12	6.99	8.36	7.82	8.04	11.11	10.28	10.67	15.00	11.43	12.83
3	7.57	5.98	6.53	7.95	7.53	7.70	10.29	9.73	9.99	15.15	11.88	13.26
4	7.33	6.96	7.10	7.81	6.94	7.51	10.41	9.63	9.97	---	---	---
5	7.25	5.92	6.34	8.09	7.55	7.79	11.55	9.49	10.43	---	---	---
6	6.45	4.85	5.65	8.21	7.53	7.87	11.43	9.99	10.63	---	---	---
7	5.90	4.91	5.46	7.98	7.41	7.78	13.49	9.97	11.26	---	---	---
8	7.09	5.28	6.11	8.03	6.13	6.97	13.42	11.35	12.06	---	---	---
9	7.81	6.41	7.24	9.74	6.67	7.99	13.06	10.24	11.35	---	---	---
10	7.03	6.25	6.58	10.21	8.13	8.93	13.06	11.43	12.07	---	---	---
11	7.58	5.76	6.73	11.00	8.78	9.68	13.75	11.29	12.16	---	---	---
12	7.84	6.25	6.99	11.80	9.35	10.58	13.69	11.88	12.51	---	---	---
13	7.98	5.95	6.85	11.83	9.98	11.02	12.83	12.00	12.31	---	---	---
14	7.21	5.50	6.18	12.01	11.27	11.62	13.91	12.34	13.03	---	---	---
15	8.46	5.36	6.90	13.82	11.08	12.03	13.94	13.29	13.55	---	---	---
16	7.92	5.45	6.43	15.76	13.28	14.33	13.29	12.42	12.96	---	---	---
17	7.92	7.28	7.58	15.75	13.65	14.42	14.58	13.23	13.79	---	---	---
18	7.65	6.14	6.71	13.63	12.31	12.95	15.02	14.14	14.51	---	---	---
19	7.11	5.68	6.60	12.30	11.30	11.83	15.83	13.99	15.00	---	---	---
20	6.72	4.86	5.95	11.39	10.98	11.19	16.54	14.98	15.73	---	---	---
21	6.42	5.10	5.91	11.43	10.47	10.89	16.56	15.54	16.14	---	---	---
22	7.37	6.10	6.69	10.79	9.68	10.28	17.81	16.52	17.37	---	---	---
23	8.53	6.87	7.75	11.22	10.32	10.74	17.23	15.12	15.73	---	---	---
24	8.50	7.27	7.90	11.08	9.91	10.51	16.64	14.62	15.50	---	---	---
25	8.76	6.85	7.77	10.75	9.39	9.92	16.89	16.09	16.56	---	---	---
26	8.21	6.54	7.42	11.26	10.61	10.90	16.88	15.44	16.07	---	---	---
27	7.45	5.79	6.56	11.29	10.29	10.82	17.18	15.26	15.91	---	---	---
28	7.29	5.31	6.19	11.79	10.51	11.26	18.04	17.21	17.74	---	---	---
29	7.94	5.20	6.59	11.78	11.46	11.62	18.19	17.16	17.72	---	---	---
30	7.73	5.31	6.52	11.73	11.33	11.45	18.19	16.04	16.65	---	---	---
31	8.78	7.02	7.65	---	---	---	16.02	14.86	15.42	---	---	---
MONTH	8.78	4.85	6.72	15.76	6.13	10.23	18.19	9.49	13.74	---	---	---

14129400 COLUMBIA RIVER AT WASHOUGAL, WASH.--Continued

GAGE HEIGHT (FT.) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	17.27	16.38	16.89	21.27	21.03	21.18
2	---	---	---	10.42	9.37	10.09	19.02	17.28	18.11	21.44	20.98	21.13
3	---	---	---	9.73	9.06	9.41	19.54	18.94	19.19	21.72	21.44	21.59
4	---	---	---	10.07	9.60	9.82	19.63	19.23	19.49	21.51	21.40	21.47
5	---	---	---	16.40	9.88	12.15	19.39	17.81	18.76	21.48	21.29	21.40
6	---	---	---	16.34	13.36	14.74	17.79	17.10	17.42	21.82	21.34	21.57
7	---	---	---	15.83	14.35	14.86	17.26	16.97	17.14	22.18	21.79	21.99
8	---	---	---	15.12	14.25	14.60	17.88	17.11	17.46	22.33	22.14	22.24
9	---	---	---	15.12	14.14	14.56	17.43	17.09	17.26	22.45	22.11	22.27
10	---	---	---	14.88	11.66	13.39	17.23	16.96	17.10	22.35	21.55	22.06
11	---	---	---	13.17	10.92	11.88	17.80	17.12	17.39	21.53	20.73	21.10
12	---	---	---	13.62	13.19	13.35	17.87	17.64	17.79	20.74	19.10	20.11
13	---	---	---	14.10	13.09	13.74	18.02	17.80	17.93	19.09	17.79	18.31
14	---	---	---	14.60	13.63	14.11	17.93	17.11	17.75	17.78	17.18	17.44
15	---	---	---	15.26	14.59	14.99	17.09	15.85	16.53	17.19	17.06	17.13
16	---	---	---	15.63	14.56	15.32	16.55	15.51	15.92	17.11	16.75	16.98
17	---	---	---	14.52	12.63	13.33	17.48	16.58	16.97	16.74	16.04	16.37
18	---	---	---	16.07	13.18	15.16	17.48	17.26	17.36	17.62	16.73	17.38
19	---	---	---	15.61	14.67	15.11	17.66	17.28	17.52	17.80	17.57	17.72
20	---	---	---	15.67	13.37	14.90	17.93	17.62	17.80	17.72	17.34	17.55
21	---	---	---	14.96	13.62	14.53	17.72	16.94	17.46	17.42	17.24	17.33
22	---	---	---	14.41	13.61	13.96	17.11	16.76	16.94	17.26	16.97	17.15
23	---	---	---	14.47	13.98	14.30	17.42	17.04	17.14	17.04	16.85	16.94
24	---	---	---	14.42	11.85	13.10	17.54	15.74	16.73	17.29	16.72	16.90
25	---	---	---	14.70	12.16	13.19	15.73	15.08	15.34	17.92	17.29	17.68
26	---	---	---	14.95	13.20	14.10	18.18	15.26	16.35	17.99	17.81	17.92
27	---	---	---	14.69	13.87	14.18	19.73	18.23	19.22	18.49	17.84	18.00
28	---	---	---	16.27	14.07	15.08	20.45	19.72	19.96	19.63	18.50	19.10
29	---	---	---	16.35	14.31	15.70	20.59	20.35	20.51	19.83	19.52	19.67
30	---	---	---	17.00	15.64	16.49	21.13	20.52	20.92	21.04	19.58	20.57
31	---	---	---	17.01	16.07	16.40	---	---	---	20.67	19.81	20.19
MONTH	---	---	---	17.01	9.06	13.88	21.13	15.08	17.74	22.45	16.04	19.30

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.86	19.62	19.80	25.17	24.78	25.03	13.86	12.18	12.78	7.48	5.91	6.70
2	19.62	19.34	19.42	24.77	24.14	24.43	13.79	11.00	12.03	7.40	6.10	6.80
3	19.64	19.34	19.49	24.16	24.01	24.09	12.56	11.62	11.96	9.54	7.20	8.47
4	20.32	19.29	19.62	24.04	23.77	23.98	11.57	9.19	10.03	9.35	8.71	8.95
5	21.85	20.33	21.28	23.75	23.21	23.52	12.69	9.74	11.44	9.62	8.30	8.80
6	22.04	21.75	21.91	23.22	22.10	22.74	12.44	10.39	11.30	9.39	8.47	8.90
7	22.21	21.98	22.08	22.09	21.01	21.53	12.01	10.22	11.18	9.14	7.67	8.18
8	22.23	21.95	22.07	21.00	20.29	20.58	12.04	10.27	11.12	8.08	5.71	6.49
9	21.95	21.82	21.87	20.30	18.75	19.67	12.15	10.80	11.31	8.56	7.25	7.80
10	21.82	21.58	21.68	18.72	17.68	18.16	11.43	10.45	11.03	8.53	7.68	8.03
11	21.58	21.03	21.24	17.67	17.12	17.33	11.41	9.55	10.55	8.89	7.78	8.21
12	21.42	21.26	21.36	17.35	16.10	16.87	12.01	9.68	10.75	10.42	8.57	9.27
13	22.11	21.42	21.78	16.08	14.98	15.39	12.28	11.89	12.10	10.52	10.02	10.32
14	22.89	22.10	22.44	15.00	12.68	13.45	11.87	9.53	10.42	10.42	7.91	8.85
15	23.83	22.90	23.30	13.97	12.80	13.40	10.29	9.25	9.58	7.91	6.45	7.19
16	24.92	23.83	24.44	13.20	12.37	12.79	10.95	9.82	10.35	8.15	6.16	7.17
17	26.40	24.90	25.54	12.82	12.36	12.61	10.95	8.76	9.62	8.70	6.75	7.70
18	27.34	26.42	26.91	13.85	12.46	13.39	---	---	---	9.26	7.92	8.43
19	27.86	27.31	27.57	14.02	13.65	13.87	---	---	---	10.05	8.25	8.80
20	28.20	27.86	28.06	14.57	13.67	14.05	---	---	8.62	9.99	8.92	9.23
21	28.42	28.18	28.31	14.79	13.85	14.40	10.16	8.42	9.02	9.40	6.55	7.54
22	28.39	28.26	28.33	14.55	13.16	13.69	9.77	8.40	8.82	7.38	5.66	6.31
23	28.34	28.18	28.27	13.86	13.11	13.49	9.83	8.36	8.81	7.81	6.86	7.39
24	28.25	28.02	28.14	15.25	13.91	14.29	8.76	6.95	7.71	7.91	7.46	7.67
25	28.04	27.90	27.97	15.57	13.94	14.61	8.03	5.62	6.45	8.38	7.66	8.03
26	28.07	27.88	28.00	14.47	13.50	13.96	8.14	6.90	7.48	8.95	7.93	8.64
27	27.91	27.64	27.81	13.67	10.82	11.95	8.57	7.73	8.00	8.96	8.45	8.66
28	27.71	27.33	27.63	11.55	10.31	10.89	10.57	8.42	9.25	8.85	6.74	7.68
29	27.32	26.41	27.02	12.20	10.51	11.31	11.10	9.66	10.32	7.43	6.26	6.68
30	26.37	25.19	25.73	12.66	12.22	12.45	9.70	8.04	9.11	8.86	7.29	8.10
31	---	---	---	12.73	11.26	12.20	8.03	6.89	7.48	---	---	---
MONTH	28.42	19.29	24.30	25.17	10.31	16.45	13.86	5.62	9.95	10.52	5.66	8.03
YEAR	28.42	4.85	14.04									

14134000 SALMON RIVER NEAR GOVERNMENT CAMP, OREG.

LOCATION.--Lat 45°15'55", long 121°43'00", in SE¼NE¼ sec.31, T.3 S., R.9 E., Clackamas County, in Mount Hood National Forest, on right bank near lower end of Red Top Meadows and 3.0 mi (4.8 km) southeast of Government Camp.

DRAINAGE AREA.--8.7 mi² (22.5 km²), approximately.

PERIOD OF RECORD.--May 1910 to May 1912, April 1926 to current year. Published as "near Rowe" 1910-12.

GAGE.--Water-stage recorder. Datum of gage is 3,445.53 ft (1,050.198 m) above mean sea level. Prior to Nov. 21, 1910, nonrecording gage at site 0.2 mi (0.3 km) upstream at different datum. Nov. 21, 1910, to May 31, 1912, and Apr. 21, 1926, to Sept. 30, 1933, at site 75 ft (23 m) upstream from former site at different datums. Oct. 1, 1933, to Sept. 30, 1960, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--49 years (1910-11, 1926-74), 44.8 ft³/s (1.269 m³/s), 69.93 in/yr (1,776 mm/yr), 32,460 acre-ft/yr (40.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 354 ft³/s (10.0 m³/s) June 4, gage height, 3.12 ft (0.951 m); minimum, 15 ft³/s (0.42 m³/s) Oct. 16-19.

Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Dec. 23, 1964, gage height, 4.75 ft (1.448 m), from rating curve extended above 310 ft³/s (8.78 m³/s), on basis of slope-area measurement of peak flow; minimum, 10 ft³/s (0.28 m³/s) Nov. 27, 1952.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 789: Drainage area. WSP 1398: 1911-12, 1926-27, 1933(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	47	38	44	64	33	47	67	114	141	75	38
2	16	31	34	39	54	32	43	62	133	122	73	38
3	16	26	33	36	47	31	39	65	148	117	73	37
4	16	26	31	34	50	33	38	71	250	123	72	38
5	16	26	31	32	48	34	41	84	237	122	68	38
6	20	24	37	31	46	32	42	99	168	114	65	35
7	20	23	94	30	45	30	41	111	143	108	62	35
8	17	31	61	30	42	30	41	117	124	111	60	34
9	16	61	47	31	41	30	42	103	126	104	59	36
10	16	70	42	33	40	31	39	90	135	100	59	36
11	17	76	41	35	39	32	59	106	158	87	59	33
12	18	77	39	39	38	32	59	111	180	81	56	32
13	17	56	38	46	38	31	49	84	198	89	56	31
14	16	47	36	59	37	31	47	74	207	95	53	31
15	16	53	48	220	38	35	47	67	194	97	52	31
16	15	73	85	194	40	38	46	62	184	90	51	31
17	15	48	90	101	39	42	49	58	198	94	50	31
18	15	41	63	97	38	38	52	57	204	96	51	31
19	16	37	53	96	50	36	51	58	196	96	59	30
20	20	36	68	73	48	34	50	61	182	93	53	30
21	23	35	94	63	43	34	54	63	166	92	47	30
22	18	33	68	61	39	34	58	68	170	90	46	29
23	25	32	60	61	38	33	58	71	156	88	47	29
24	28	31	88	63	36	34	58	83	143	77	45	28
25	27	31	87	67	37	36	57	101	136	83	45	28
26	21	29	64	57	37	38	54	122	122	82	44	28
27	19	37	77	54	36	41	56	123	122	81	44	26
28	32	49	69	50	34	47	61	113	123	81	44	26
29	29	39	58	50	------	52	60	103	133	85	42	27
30	24	37	51	50	------	59	66	102	150	82	41	26
31	106	------	47	54	------	52	------	103	------	77	40	------
TOTAL	686	1,262	1,772	1,930	1,182	1,125	1,504	2,659	4,905	2,998	1,691	953
MEAN	22.1	42.1	57.2	62.3	42.2	36.3	50.1	85.8	164	96.7	54.5	31.8
MAX	106	77	94	220	64	59	66	123	250	141	75	38
MIN	15	23	31	30	34	30	38	57	114	77	40	26
CFSM	2.54	4.84	6.57	7.16	4.85	4.17	5.76	9.86	18.9	11.1	6.26	3.66
IN.	2.93	5.40	7.58	8.25	5.05	4.81	6.43	11.37	20.97	12.82	7.23	4.07
AC-FT	1,360	2,500	3,519	3,830	2,340	2,230	2,980	5,270	9,730	5,950	3,350	1,890

CAL YR 1973 TOTAL 11,945 MEAN 32.7 MAX 132 MIN 15 CFSM 3.76 IN 51.08 AC-FT 23,690
WTR YR 1974 TOTAL 22,667 MEAN 62.1 MAX 250 MIN 15 CFSM 7.14 IN 96.92 AC-FT 44,960

NOTE.--No gage-height record Jan. 28 to Mar. 5.

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1400	2.68	221	6- 4	1730	3.12	354
12-24	1930	2.51	185	6-14	1930	2.74	236
1-15	2230	3.07	337				

14137000 SANDY RIVER NEAR MARMOT, OREG.

LOCATION.--Lat 45°23'30", long 122°07'40", in SE¼ sec.13, T.2 S., R.5 E., Clackamas County, on right bank 0.7 mi (1.1 km) southwest of Marmot, 0.8 mi (1.3 km) upstream from Sandy River Dam of Portland General Electric Co., 6.6 mi (10.6 km) downstream from Salmon River, and at mile 30.9 (49.7 km).

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--August 1911 to current year. Published as "at Marmot" October 1912 to September 1913. Records for January 1916 to June 1919, published as "below dam, near Marmot," obtained by combining records for Sandy River below dam, near Marmot, with records for Sandy River Canal near Marmot.

GAGE.--Water-stage recorder. Altitude of gage is 730 ft (223 m), from river-profile map. Aug. 15, 1911, to Dec. 20, 1915, and July 2, 1919, to Oct. 19, 1933, nonrecording gage at site 1.0 mi (1.6 km) upstream at different datum. Oct. 20, 1933, to Sept. 30, 1958, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.--63 years, 1,377 ft³/s (39.0 m³/s), 71.37 in/yr (1,813 mm/yr), 997,600 acre-ft/yr (1.23 km³/yr).

EXTREMES.--Current year: Maximum discharge, 19,200 ft³/s (544 m³/s) Jan. 15, gage height, 14.04 ft (4.279 m); minimum, 325 ft³/s (9.20 m³/s) Oct. 18, 19.

Period of record: Maximum discharge, 61,400 ft³/s (1,740 m³/s) Dec. 22, 1964, gage height, 17.05 ft (5.197 m), from rating curve extended above 7,000 ft³/s (198 m³/s); minimum, 195 ft³/s (5.52 m³/s) Nov. 27, 28, 1952.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 594: Drainage area. WSP 1288: 1912(M), 1915, 1922, 1924, 1934(M). WSP 1318: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	3.470	2.650	2.270	4.320	1.560	3.030	2.180	1.300	1.400	853	548
2	400	1.910	2.250	1.920	3.140	1.520	3.030	1.970	1.450	1.390	853	530
3	380	1.390	2.110	1.700	2.510	1.350	2.550	1.850	1.500	1.410	846	530
4	366	1.220	1.920	1.540	3.110	1.440	2.180	1.910	3.000	1.420	853	530
5	357	1.040	1.700	1.350	2.580	3.200	2.180	2.280	5.000	1.440	818	524
6	395	956	1.840	1.250	2.100	2.870	2.370	2.740	3.500	1.360	755	500
7	476	916	5.460	1.150	1.820	1.960	2.250	2.920	2.200	1.280	713	476
8	410	1.040	4.280	1.100	1.660	1.580	2.040	3.000	1.800	1.310	685	476
9	375	3.110	2.810	1.050	1.600	1.380	2.060	2.790	1.800	1.360	671	512
10	357	3.570	2.230	1.050	1.550	1.370	2.130	2.840	1.850	1.250	678	506
11	357	3.690	2.000	1.000	1.500	1.480	3.410	3.500	2.100	1.250	678	470
12	390	4.280	1.990	1.450	1.430	1.560	3.630	4.200	2.400	1.140	657	450
13	380	3.660	2.200	2.090	1.340	1.460	2.600	3.230	2.500	1.080	638	435
14	370	2.920	1.970	3.770	1.580	1.490	2.140	2.840	2.300	1.090	632	425
15	352	3.340	2.650	13.600	1.660	2.160	2.000	2.710	2.000	1.110	608	425
16	343	4.680	5.360	13.100	1.910	2.920	1.780	2.440	1.900	1.050	602	425
17	339	3.290	6.660	7.200	1.820	3.290	1.720	2.110	2.000	1.140	608	425
18	330	2.410	4.400	5.410	2.250	2.450	1.820	2.180	1.900	1.230	620	425
19	325	1.860	3.110	5.300	4.540	2.030	1.740	2.380	1.800	1.180	664	425
20	380	2.060	3.520	3.940	2.740	1.740	1.760	2.230	1.700	1.080	692	420
21	482	1.950	5.360	3.050	2.130	1.540	1.780	2.020	1.600	1.040	608	420
22	455	1.780	4.060	2.940	1.760	1.440	1.920	2.020	1.600	1.000	578	415
23	460	1.820	3.960	3.480	1.490	1.330	1.940	2.020	1.500	964	590	415
24	776	2.060	4.200	3.290	1.340	1.280	1.900	2.460	1.450	924	578	410
25	892	2.100	5.270	3.650	1.390	1.380	1.990	3.000	1.450	908	578	400
26	804	2.000	3.570	3.290	1.480	1.560	1.860	3.500	1.450	908	584	390
27	671	2.480	6.530	3.590	1.380	1.790	1.660	3.000	1.500	892	584	385
28	996	4.060	7.260	3.700	1.610	2.280	2.060	2.200	1.450	892	596	375
29	1.150	3.770	4.790	3.110	------	3.000	1.950	1.700	1.450	956	590	370
30	924	3.020	3.590	3.030	------	3.500	2.160	1.400	1.400	948	578	370
31	3.940	------	2.920	4.280	------	3.200	------	1.200	------	884	572	------
TOTAL	19.057	75.842	112.520	108.650	57.740	61.110	65.840	76.820	58.850	35.286	20.560	13.407
MEAN	615	2.528	3.630	3.505	2.062	1.971	2.195	2.478	1.962	1.138	663	447
MAX	3.940	4.680	7.260	13.600	4.540	3.500	3.630	4.200	5.000	1.440	853	548
MIN	325	916	1.700	1.000	1.340	1.280	1.720	1.200	1.300	884	572	370
CFSM	2.35	9.65	13.9	13.4	7.87	7.52	8.38	9.46	7.49	4.34	2.53	1.71
IN.	2.71	10.77	15.98	15.43	8.20	8.68	9.35	10.91	8.36	5.01	2.92	1.90
AC-FT	37.800	150.400	223.200	215.500	114.500	121.200	130.600	152.400	116.700	69.990	40.780	26.590

CAL YR 1973 TOTAL 449.273 MEAN 1.231 MAX 7.260 MIN 275 CFSM 4.70 IN 63.79 AC-FT 891.100
WTR YR 1974 TOTAL 705.682 MEAN 1.933 MAX 13.600 MIN 325 CFSM 7.38 IN 100.20 AC-FT 1.400.000

PEAK DISCHARGE (BASE, 7,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1900	11.46	8,780	1-15	1300	14.04	19,200
12-27	2330	11.60	9,200				

14138800 BLAZED ALDER CREEK NEAR RHODODENDRON, OREG.

LOCATION.--Lat 45°27'10", long 121°53'25", in NW¼SE¼ sec.25, T.1 S., R.7 E., Clackamas County, in Mount Hood National Forest, on right bank 600 ft (183 m) below the confluence of Bedrock and Hickman Creeks and 8.6 mi (13.8 km) north of Rhododendron.

DRAINAGE AREA.--8.17 mi^2 (21.16 km^2).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,540 ft (774 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 62.1 ft^3/s (1.76 m^3/s), 103.22 in/yr (2,622 mm/yr), 44,990 acre-ft/yr (55.4 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,310 ft^3/s (37.1 m^3/s) Jan. 15, gage height, 5.47 ft (1.667 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Sept. 22-30.

Period of record: Maximum discharge, 2,610 ft^3/s (73.9 m^3/s) Dec. 22, 1964, gage height, 8.25 ft (2.515 m), from rating curve extended above 330 ft^3/s (9.35 m^3/s), on basis of slope-area measurement of peak flow; minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 5-10, 28, 29, 1967.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	281	115	53	218	38	165	73	71	45	7.8	3.0
2	16	113	105	46	101	35	119	70	82	40	7.2	2.8
3	14	65	101	40	70	30	82	65	86	35	7.2	2.8
4	11	51	78	35	98	45	72	65	140	35	6.7	2.8
5	11	38	62	31	61	156	80	78	228	35	6.2	2.8
6	20	31	103	28	48	87	118	105	150	33	5.8	2.6
7	29	29	523	25	36	52	130	108	120	32	5.3	2.6
8	20	39	243	28	31	42	90	100	96	33	5.3	2.6
9	16	262	117	50	29	34	85	96	84	35	4.9	3.2
10	14	273	75	100	28	36	120	140	82	35	4.9	3.0
11	14	273	62	210	28	51	225	190	96	39	4.5	2.8
12	16	313	78	402	28	49	200	180	108	31	4.5	2.6
13	15	213	87	635	27	51	125	100	107	25	4.5	2.4
14	14	121	94	395	57	39	76	95	103	23	4.5	2.4
15	12	233	156	1,000	70	75	69	92	90	22	4.1	2.4
16	11	345	452	673	113	127	60	86	72	19	3.8	2.4
17	11	154	452	307	72	208	58	78	76	25	3.8	2.2
18	9.8	89	205	246	141	115	62	86	80	29	3.8	2.1
19	9.0	59	111	265	246	77	59	100	72	23	6.7	2.1
20	13	85	265	129	107	59	70	90	64	20	8.4	2.1
21	28	57	336	78	68	49	77	77	58	18	5.3	2.1
22	22	48	251	89	51	47	76	71	56	17	4.5	2.1
23	35	43	287	133	42	43	74	70	52	16	4.5	2.2
24	72	43	321	133	34	42	74	84	48	14	4.1	2.1
25	96	49	279	230	46	48	72	140	44	13	3.8	2.1
26	68	38	141	123	49	59	64	158	42	12	3.8	2.1
27	49	115	580	123	40	78	70	113	47	12	3.4	2.0
28	94	270	373	168	45	150	72	94	45	11	3.4	2.0
29	89	198	179	143	------	238	66	80	43	9.8	3.2	2.0
30	64	137	107	213	------	225	71	77	46	9.0	3.0	2.0
31	513	------	72	301	------	168	------	64	------	8.4	3.0	------
TOTAL	1,423.8	4,065	6,410	6,432	1,986	2,553	2,781	3,025	2,488	754.2	151.9	72.4
MEAN	45.9	136	207	207	70.9	82.4	92.7	97.6	82.9	24.3	4.90	2.41
MAX	513	345	580	1,000	246	238	225	190	228	45	8.4	3.2
MIN	9.0	29	62	25	27	30	58	64	42	8.4	3.0	2.0
CFSM	5.62	16.6	25.3	25.3	8.68	10.1	11.3	11.9	10.1	2.97	.60	.30
IN.	6.48	18.51	29.19	29.29	9.04	11.62	12.66	13.77	11.33	3.43	.69	.33
AC-FT	2,820	8,060	12,710	12,760	3,940	5,060	5,520	6,000	4,930	1,500	301	144

CAL YR 1973 TOTAL 21,828.9 MEAN 59.8 MAX 643 MIN 2.5 CFSM 7.32 IN 99.39 AC-FT 43,300
WTR YR 1974 TOTAL 32,142.3 MEAN 88.1 MAX 1,000 MIN 2.0 CFSM 10.8 IN 146.35 AC-FT 63,750

PEAK DISCHARGE (BASE, 500 CFS)

NOTE.--No gage-height record Apr. 3 to July 9.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1630	5.20	1,200	12-24	1830	3.93	691
11-16	0430	3.44	508	12-27	2030	4.07	745
12- 7	1330	4.16	778	1-13	1000	4.62	958
12-16	1500	3.73	612	1-15	0830	5.47	1,310

14138850 BULL RUN RIVER NEAR MULTNOMAH FALLS, OREG.

LOCATION.--Lat 45°29'30", long 122°00'30", near center of sec.12, T.1 S., R.6 E., Multnomah County, in Mount Hood National Forest, on right bank 1.2 mi (1.9 km) above North Fork, 7.0 mi (11.3 km) southeast of Multnomah Falls, and at mile 14.8 (23.8 km).

DRAINAGE AREA.--47.9 mi² (124.1 km²).

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,080 ft (329 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 454 ft³/s (12.9 m³/s), 128.71 in/yr (3,269 mm/yr), 328,900 acre-ft/yr (406 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,260 ft³/s (177 m³/s) Jan. 15, gage height, 11.37 ft (3.466 m); minimum, 53 ft³/s (1.50 m³/s) Sept. 30.
Period of record: Maximum discharge, 8,610 ft³/s (244 m³/s) Jan. 20, 1972, gage height, 13.22 ft (4.029 m); minimum, 33 ft³/s (0.93 m³/s) Sept. 27, 1967.

REMARKS.--Records good. Water stored since 1915 in Bull Run Lake, capacity, 12,270 acre-ft (15.1 hm³). No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	1,480	816	459	1,700	493	1,230	626	591	367	131	71
2	125	666	785	367	957	447	1,080	609	682	317	125	67
3	112	448	764	307	661	370	816	548	697	284	121	66
4	104	363	622	274	981	466	639	552	1,670	264	116	66
5	97	286	493	270	848	1,040	697	692	1,940	289	112	67
6	142	254	687	248	485	898	862	621	1,210	269	107	66
7	190	244	2,720	220	402	526	945	857	969	251	103	65
8	140	324	1,480	200	357	398	730	836	749	264	101	65
9	121	1,890	764	195	367	344	723	764	676	291	98	76
10	100	1,640	526	185	237	357	798	951	607	274	96	73
11	118	1,700	481	175	324	455	1,640	1,430	885	324	91	67
12	145	2,080	591	249	311	474	1,320	1,270	874	271	91	65
13	154	1,500	713	1,530	291	421	888	821	868	246	90	63
14	157	1,880	764	2,300	513	409	630	795	826	207	90	62
15	136	1,040	1,120	5,040	552	700	583	776	702	225	86	61
16	125	2,250	2,520	3,730	862	1,110	564	702	613	212	85	61
17	115	1,050	2,620	2,020	607	1,470	496	609	630	201	82	59
18	106	613	1,310	1,480	1,080	868	530	671	652	367	82	59
19	100	460	700	1,080	1,040	639	496	776	596	291	101	59
20	124	638	1,560	975	904	517	639	682	521	250	125	57
21	251	530	1,820	639	630	447	657	591	470	234	95	56
22	210	421	1,530	760	401	402	661	583	466	210	87	56
23	289	421	1,770	1,360	394	363	639	576	425	205	84	56
24	587	481	1,890	1,220	344	357	635	713	391	192	81	55
25	687	570	1,750	1,040	470	413	613	1,060	370	181	80	54
26	476	485	963	1,140	500	500	563	1,160	357	171	78	54
27	330	1,180	3,420	1,190	425	626	591	904	307	166	76	54
28	530	2,190	2,440	1,460	530	993	613	742	360	157	75	54
29	504	1,420	1,390	1,270	------	1,360	583	639	357	136	72	54
30	276	1,820	886	1,810	------	1,360	609	561	303	145	71	53
31	2,470	------	604	2,260	------	1,110	------	539	------	130	71	------
TOTAL	9,279	29,445	40,670	37,054	17,954	21,011	22,204	23,051	20,957	7,519	2,901	1,841
MEAN	299	982	1,312	1,195	641	678	743	744	699	243	93.6	61.4
MAX	2,470	2,250	3,420	5,040	1,700	1,470	1,640	1,430	1,940	367	131	76
MIN	97	244	481	175	237	344	496	539	303	130	71	53
CFSM	6.24	20.5	27.4	24.9	13.4	14.2	15.5	15.5	14.6	5.07	1.95	1.28
IN.	7.21	22.88	31.59	28.78	13.94	16.32	17.31	18.02	16.28	5.84	2.25	1.43
AC-FT	18,400	58,400	80,670	73,500	35,610	41,670	44,040	45,720	41,570	14,910	5,750	3,650

CAL YR 1973 TOTAL 152,517 MEAN 418 MAX 6,040 MIN 61 CFSM 8.73 IN 118.44 AC-FT 302,500
WTR YR 1974 TOTAL 234,751 MEAN 643 MAX 5,040 MIN 53 CFSM 13.4 IN 182.26 AC-FT 465,700

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

14138900 NORTH FORK BULL RUN RIVER NEAR MULTNOMAH FALLS, OREG.

LOCATION.--Lat 45°29'40", long 122°02'05", in NE¼SW¼ sec.11, T.1 S., R.6 E., Multnomah County, Mount Hood National Forest, on right bank 6.9 mi (11.1 km) southeast of Multnomah Falls and at mile 0.1 (0.2 km).

DRAINAGE AREA.--8.32 mi² (21.55 km²).

PERIOD OF RECORD.--August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,080 ft (329 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 81.5 ft³/s (2.31 m³/s), 133.03 in/yr (3,379 mm/yr), 59,050 acre-ft/yr (72.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,160 ft³/s (32.9 m³/s), Dec. 27, Jan. 15, gage height, 6.26 ft (1.908 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 25-30.
Period of record: Maximum discharge, 9,700 ft³/s (275 m³/s) Jan. 20, 1972, gage height, 9.89 ft (3.014 m), from floodmark, from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of slope-area measurement of peak flow; minimum, 9.8 ft³/s (0.28 m³/s) Sept. 27-29, 1967.

REMARKS.--Records good. Regulation at times since 1958 by North Fork dam, capacity, about 1,030 acre-ft (1.27 hm³). No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	236	166	136	316	91	227	49	103	53	28	21
2	25	128	150	79	227	82	209	67	103	48	27	20
3	23	106	147	68	137	65	157	87	111	39	27	20
4	22	96	117	60	218	96	117	91	253	28	26	20
5	21	80	103	51	137	371	120	106	311	28	26	20
6	36	75	137	47	96	172	167	117	240	26	26	19
7	43	75	422	46	75	98	156	137	209	26	26	19
8	28	101	260	42	65	72	120	131	176	28	26	19
9	24	291	106	39	62	60	128	120	122	28	26	22
10	23	296	103	38	59	62	166	161	109	30	26	22
11	26	261	96	36	56	86	367	240	114	37	25	20
12	36	340	116	45	57	91	219	204	122	30	26	19
13	41	246	120	258	51	79	176	144	125	28	26	19
14	42	266	136	391	90	74	109	141	122	26	27	18
15	32	346	214	420	106	144	96	128	106	26	28	18
16	29	307	415	810	168	205	88	122	94	26	26	18
17	26	236	419	363	122	273	82	101	89	49	26	18
18	26	140	266	316	216	150	80	137	89	48	26	18
19	23	157	295	321	316	111	72	167	86	47	30	17
20	30	140	267	260	186	99	114	116	73	48	32	17
21	48	157	236	264	122	77	109	96	65	35	28	17
22	47	96	280	231	89	67	106	91	62	31	26	17
23	72	91	311	362	73	59	101	86	59	31	26	17
24	104	103	391	272	63	56	95	131	55	34	26	17
25	141	117	266	321	103	67	84	166	55	34	26	17
26	66	111	236	216	101	79	95	182	56	33	23	17
27	63	268	424	260	96	86	96	166	63	31	23	16
28	125	376	481	281	109	141	101	137	53	30	22	16
29	95	266	362	258	------	270	96	116	51	29	22	16
30	82	277	262	303	------	216	96	161	51	28	22	16
31	281	------	271	422	------	196	------	88	------	28	22	------
TOTAL	1,916	[illegible]	7,924	7,692	3,562	3,590	3,617	4,001	3,321	1,047	796	550
MEAN	61.8	188	256	248	127	116	121	129	111	33.8	25.7	18.3
MAX	281	307	481	810	316	371	367	260	311	60	32	22
MIN	21	75	96	36	51	56	72	49	51	26	22	16
CFSM	7.43	23.9	30.8	29.8	15.3	14.0	14.5	15.5	13.3	4.08	3.09	2.20
IN.	8.56	26.76	35.43	34.39	15.95	16.10	16.17	17.89	14.85	4.68	3.56	2.46
AC-FT	3,800	11,880	15,720	15,260	7,070	7,120	7,170	7,940	6,590	2,080	1,580	1,090

CAL YR 1973 TOTAL 30,916 MEAN 83.5 MAX 1,220 MIN 16 CFSM 10.0 IN 136.00 AC-FT 61,320
WTR YR 1974 TOTAL 44,238 MEAN 121 MAX 920 MIN 16 CFSM 14.5 IN 198.00 AC-FT 87,750

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]				

14139000 BULL RUN RESERVOIR NUMBER ONE NEAR BULL RUN, OREG.

LOCATION.--Lat 45°28'50", long 122°04'50", in NW¼SW¼ sec.16, T.1 S., R.6 E., Multnomah County, in Mount Hood National Forest, in control house of Bear Creek Dam on Bull Run River, 8.2 mi (13.2 km) northeast of Bull Run, and at mile 11.2 (18.0 km).

DRAINAGE AREA.--74.6 mi^2 (193.0 km^2).

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1937, published as Bull Run Reservoir. October 1937 to September 1967 published as Lake Ben Morrow.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Portland Water Bureau). Prior to Oct. 9, 1930, nonrecording gage, and Oct. 9, 1930, to Sept. 30, 1962, water-stage recorder at present site and datum.

EXTREMES.--Current year: Maximum contents observed, 30,900 acre-ft (38.1 hm^3) June 27, elevation, 1,045.54 ft (318.681 m); minimum observed, 22,620 acre-ft (27.9 hm^3) Sept. 30, elevation, 1,024.20 ft (312.176 m).

Period of record: Maximum contents observed, 31,600 acre-ft (39.0 hm^3) Mar. 31, 1931, elevation, 1,047.0 ft (319.248 m); minimum observed, 169 acre-ft (0.208 hm^3) Jan. 10, 1960, elevation, 887.50 ft (270.510 m).

REMARKS.--Lake is formed by concrete dam completed in March 1929 for water supply of city of Portland. Storage began about Apr. 29, 1929; first filling occurred May 15, 1929. Capacity, 26,930 acre-ft (33.2 hm^3) at crest of spillway, elevation, 1,036.0 ft (315.77 m); capacity increased in October 1954 to 30,140 acre-ft (37.2 hm^3) at elevation 1,044.0 ft (318.21 m) by installation of three gates 40 ft (12 m) wide and 8 ft (2.4 m) high. No dead storage. Water is used for power generation by Portland General Electric Co. and municipal supply for city of Portland. Figures herein represent total contents.

COOPERATION.--Gage readings and capacity table furnished by Portland Water Bureau.

REVISIONS (WATER YEARS).--WSP 814: 1935(M). WSP 1935: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,032.77	25,700	-
Oct. 31	1,037.26	27,410	+1,710
Nov. 30	1,038.46	27,890	+480
Dec. 31	-	-	-
CAL YR 1973	-	-	+60
Jan. 31	1,039.61	28,340	+450
Feb. 28	1,037.44	27,490	-850
Mar. 31	1,038.40	27,870	+380
Apr. 30	1,037.42	27,480	-390
May 31	1,037.30	27,440	-40
June 30	1,045.30	30,780	+3,340
July 31	1,045.22	30,660	-120
Aug. 31	1,037.63	27,560	-3,100
Sept. 30	1,024.20	22,620	-4,940
WTR YR 1974	-	-	-3,080

14139700 CEDAR CREEK NEAR BRIGHTWOOD, OREG.

LOCATION.--Lat 45°27'30", long 122°01'50", in NE¼ sec.26, T.1 S., R.6 E., Clackamas County, in Mount Hood National Forest, on right bank 5.8 mi (9.3 km) north of Brightwood and at mile 2.5 (4.0 km).

DRAINAGE AREA.--7.93 mi² (20.54 km²).

PERIOD OF RECORD.--July to November 1964, June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,960 ft (597 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 70.8 ft³/s (2.01 m³/s), 121.24 in/yr (3,079 mm/yr), 51,290 acre-ft/yr (63.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 972 ft³/s (27.5 m³/s) Jan. 15, gage height, 4.30 ft (1.311 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 24-30.

Period of record: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Dec. 22, 1964, gage height, 7.20 ft (2.195 m), from rating curve extended above 320 ft³/s (9.06 m³/s) on basis of slope-area measurement of peak flow; minimum, 7.1 ft³/s (0.20 m³/s) Aug. 29 to Sept. 3, 1970.

REMARKS.--Records excellent except those above 1,000 ft³/s (28.3 m³/s), which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	213	149	81	345	89	242	89	71	39	26	18
2	24	106	135	64	181	82	216	85	75	36	26	17
3	22	72	137	54	128	69	162	77	75	34	26	17
4	21	60	110	46	200	94	124	75	212	34	25	17
5	19	48	90	37	121	388	143	87	246	36	24	17
6	30	43	123	34	91	181	164	94	153	34	24	17
7	35	43	663	36	77	104	184	94	133	33	23	17
8	25	59	244	34	69	80	133	91	102	36	22	17
9	22	252	127	32	66	69	143	91	89	43	22	20
10	20	209	88	31	63	72	153	126	84	43	22	18
11	20	226	81	30	61	86	333	216	85	52	22	17
12	27	300	97	54	58	85	237	181	87	42	21	17
13	26	260	127	173	58	75	138	119	84	37	21	16
14	25	181	135	252	126	77	108	153	80	36	21	16
15	22	279	190	691	124	143	75	148	71	34	21	16
16	20	335	330	559	196	196	65	131	63	34	20	16
17	19	144	409	305	151	265	88	104	61	49	20	16
18	18	99	200	237	224	153	89	156	59	58	20	16
19	17	71	120	255	382	112	76	156	55	48	27	15
20	23	100	204	166	167	92	120	136	50	42	35	15
21	49	90	263	104	117	80	94	104	47	40	24	15
22	36	71	230	161	91	72	92	92	45	37	22	15
23	55	93	270	255	76	68	91	84	43	36	21	15
24	90	95	252	204	66	66	89	102	41	34	20	14
25	93	110	233	365	66	76	92	131	41	33	20	14
26	64	95	153	204	92	85	82	136	40	32	20	14
27	91	190	636	251	76	106	96	118	47	31	19	14
28	119	360	616	300	66	150	96	94	42	30	19	14
29	90	266	295	255	------	237	67	82	39	29	18	14
30	67	173	167	365	------	280	80	72	37	28	18	14
31	313	------	110	453	------	270	------	68	------	27	18	------
TOTAL	1,483	4,665	6,560	6,088	3,595	3,957	3,901	3,686	2,357	1,155	687	478
MEAN	47.8	156	211	196	128	128	130	117	78.6	37.3	22.2	15.9
MAX	313	360	636	691	382	388	333	216	246	58	35	20
MIN	17	43	81	30	58	66	65	68	37	27	18	14
CFSM	6.03	19.6	26.6	24.5	16.1	16.1	16.4	14.8	9.91	4.70	2.80	2.01
IN.	6.96	21.90	30.68	28.18	16.86	18.56	18.30	17.30	11.06	5.42	3.22	2.24
AC-FT	2,940	9,250	13,010	12,080	7,130	7,850	7,740	6,910	4,680	2,290	1,360	948

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible] AC-FT [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX 691 MIN 14 CFSM [illegible] IN [illegible] AC-FT [illegible]

PEAK DISCHARGE (BASE, [illegible] CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]				

14139900 BULL RUN RESERVOIR NUMBER TWO NEAR BULL RUN, OREG.

LOCATION.--Lat 45°26'55", long 122°08'45", on line between secs.25 and 26, T.1 S., R.5 E., Clackamas County, in Mount Hood National Forest, on south tower 0.3 mi (0.5 km) above headworks dam on Bull Run River, 4.4 mi (7.1 km) northeast of Bull Run, and at mile 6.5 (10.5 km).

DRAINAGE AREA.--102 mi^2 (264 km^2).

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Portland Water Bureau).

EXTREMES.--Current year: Maximum contents observed, 22,280 acre-ft (27.5 hm^3) Jan. 16, elevation, 862.90 ft (263.012 m); minimum observed, 17,240 acre-ft (21.3 hm^3) Oct. 7, elevation, 851.10 ft (259.415 m).

Period of record: Maximum contents observed, 23,660 acre-ft (29.2 hm^3) Dec. 22, 1964, elevation, 866.00 ft (263.957 m); no contents at times during low-flow periods.

REMARKS.--Reservoir is formed by earth and rockfill dam with concrete spillway built by Portland Water Bureau. Storage began about Dec. 20, 1961; first filling occurred Dec. 24, 1961. Capacity, 20,990 acre-ft (25.8 hm^3) at crest of spillway, elevation, 860.0 ft (262.13 m). Dead storage negligible. Water is used for power generation by Portland General Electric Co. and municipal supply for city of Portland. Figures given herein represent total contents.

COOPERATION.--Elevations and capacity table furnished by Portland Water Bureau.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	857.65	19,970	-
Oct. 31	860.40	21,180	+1,210
Nov. 30	861.20	21,530	+350
Dec. 31	860.94	21,410	-120
CAL YR 1973	-	-	+150
Jan. 31	861.60	21,700	+290
Feb. 28	860.64	21,280	-420
Mar. 31	861.12	21,490	+210
Apr. 30	860.60	21,260	-230
May 31	860.50	21,220	-40
June 30	860.25	21,110	-110
July 31	859.76	20,890	-220
Aug. 31	857.20	19,770	-1,120
Sept.30	854.70	18,680	-1,090
WTR YR 1974	-	-	-1,290

14140000 BULL RUN RIVER NEAR BULL RUN, OREG.

LOCATION.--Lat 45°26'15", long 122°10'40", in NE¼SW¼ sec.34, T.1 S., R.5 E., Clackamas County, in Mount Hood National Forest, on left bank 1.8 mi (2.9 km) downstream from Bull Run Reservoir Number Two, 2.7 mi (4.3 km) northeast of Bull Run, and at mile 4.7 (7.6 km).

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--September 1907 to current year. Records for January 1895 to August 1907, published in WSP 370, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 567.90 ft (173.096 m) above mean sea level (levels by Portland Water Bureau). Prior to July 27, 1909, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 27, 1909, to Sept. 30, 1959, water-stage recorder at site 2.5 mi (4.0 km) upstream at different datums.

AVERAGE DISCHARGE.--67 years, 776 ft³/s (21.98 m³/s), 98.49 in/yr (2,502 mm/yr), 562,200 acre-ft/yr (693 hm³/yr), adjusted for storage in Bull Run Reservoir Number One since 1929 and Bull Run Reservoir Number Two since 1961.

EXTREMES (River only).--Current year: Maximum discharge, 11,300 ft³/s (320 m³/s) Jan. 15, gage height, 12.83 ft (3.911 m); minimum, 1.7 ft³/s (0.05 m³/s) Sept. 22, 25, 28-30.

Period of record: Maximum discharge, 24,800 ft³/s (702 m³/s) Dec. 22, 1964, gage height, 17.21 ft (5.246 m), from rating curve extended above 8,800 ft³/s (249 m³/s) on basis of computation of peak flow over dam; minimum, 1.4 ft³/s (0.04 m³/s) Aug. 29, 1970.

(Combined flow).--Current year: Maximum daily discharge, 8,650 ft³/s (245 m³/s) Jan. 15; minimum daily, 155 ft³/s (4.39 m³/s) Oct. 1.

Period of record: Maximum discharge, 25,100 ft³/s (711 m³/s) Dec. 22, 1964; minimum daily, 63 ft³/s (1.78 m³/s) Aug. 13-16, 1926.

REMARKS.--Records excellent. Water stored since 1915 in Bull Run Lake, capacity, 12,270 acre-ft (15.1 hm³), and since 1958 in North Fork Reservoir, capacity, 1,030 acre-ft (1.27 hm³). Flow regulated since 1929 by Bull Run Reservoir Number One (see station 14139000), and since 1961 by Bull Run Reservoir Number Two (see station 14139900). All records given herein include flow diverted from Bull Run Reservoir Number Two for city of Portland, and that used by Portland General Electric Co. for power generation, which returns to Bull Run River below station. Total diversion, 206,300 acre-ft (241 hm³) of which 82,200 acre-ft (83.4 hm³) was used for power generation and returned to Bull Run River.

COOPERATION.--Records of daily diversion furnished by Portland Water Bureau.

REVISIONS (WATER YEARS).--WSP 1288: 1910-11, 1913, 1920-23, 1926, 1929. WSP 1318: 1919(M). WSP 1568: 1952. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	3,210	1,730	1,140	3,450	1,100	2,080	896	748	578	295	203
2	166	1,460	1,490	1,070	2,210	1,060	2,070	876	867	499	293	201
3	161	934	1,440	962	1,470	878	1,790	799	890	395	292	250
4	160	783	1,300	562	1,840	869	1,390	761	1,640	418	282	203
5	159	587	1,010	524	1,540	3,010	1,220	842	2,830	483	256	198
6	158	489	1,120	508	1,120	2,800	1,510	1,030	1,880	436	264	233
7	160	453	3,860	506	874	1,520	1,600	1,090	1,490	350	260	214
8	159	484	3,250	484	559	1,040	1,370	1,100	1,160	414	243	217
9	159	2,360	1,750	360	290	805	1,350	1,030	983	522	252	182
10	160	2,910	1,180	206	254	712	1,670	1,250	900	523	264	176
11	159	2,870	937	209	236	794	2,710	1,700	911	546	239	182
12	160	3,540	974	197	633	900	2,890	1,990	1,070	488	222	193
13	159	3,360	1,310	351	951	861	1,760	1,350	1,120	381	228	196
14	159	2,290	1,420	2,880	925	812	1,290	1,190	1,110	330	196	201
15	159	3,030	1,880	8,650	1,190	1,250	1,100	1,310	987	331	215	222
16	170	4,730	3,750	7,620	1,460	1,770	914	1,290	824	324	256	201
17	164	2,520	5,140	4,160	1,340	2,560	826	1,150	778	511	251	218
18	158	1,560	2,880	2,670	1,380	1,800	827	1,290	755	592	210	229
19	158	1,090	1,760	3,150	3,520	1,290	789	1,580	663	600	187	228
20	163	1,230	2,000	2,020	2,170	1,010	888	1,400	362	355	191	249
21	182	1,260	3,490	971	1,490	832	998	1,130	712	419	190	236
22	167	1,090	2,570	1,640	1,120	728	946	1,080	251	375	193	242
23	202	978	3,240	2,490	873	643	934	932	267	326	204	241
24	256	1,250	2,800	2,410	721	594	925	988	218	316	224	246
25	260	1,400	3,590	2,900	781	547	916	1,420	256	306	213	241
26	203	1,520	2,840	2,470	1,050	716	834	1,660	413	293	226	220
27	212	1,830	5,770	2,460	919	660	853	1,410	550	270	250	203
28	270	3,970	5,820	3,000	1,080	1,200	957	1,190	580	264	270	195
29	254	3,160	3,220	2,570	------	1,910	877	982	514	268	245	185
30	306	2,280	2,330	2,900	------	2,140	877	862	509	280	244	182
31	4,380	------	1,620	4,000	------	2,050	------	961	------	291	212	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AC-FT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 [illegible]

WTR YR 1974 [illegible]

‡ Adjusted for change in contents in Bull Run Reservoir Number One and Bull Run Reservoir Number Two.

14141500 LITTLE SANDY RIVER NEAR BULL RUN, OREG.

LOCATION.--Lat 45°24'55", long 122°10'20", in NW¼NW¼ sec.10, T.2 S., R.5 E., Clackamas County, in Mount Hood National Forest, on left bank 0.25 mi (0.40 km) upstream from Portland General Electric Co. dam and tunnel from Sandy River, 3.0 mi (4.8 km) east of Bull Run, and at mile 1.95 (3.14 km).

DRAINAGE AREA.--22.3 mi² (57.8 km²).

PERIOD OF RECORD.--May to July 1911, October 1911 to March 1912, June 1912 to April 1913, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 720 ft (220 m), from topographic map. May 23, 1911, to Apr. 29, 1913, nonrecording gage at site 0.85 mi (1.37 km) downstream at different datum, 0.5 mi (0.8 km) downstream from Sandy River diversion tunnel. July 1, 1919, to Sept. 30, 1931, water-stage recorder at site 0.1 mi (0.2 km) downstream at different datum. Oct. 1, 1931, to Nov. 3, 1967, at site 0.1 mi (0.2 km) downstream at datum 712 ft (217 m) above mean sea level. Nov. 4, 1967, to Aug. 8, 1971, water-stage recorder at site 0.1 mi (0.2 km) downstream at datum 697.44 ft (212.580 m) above mean sea level (Portland General Electric Co. bench mark).

AVERAGE DISCHARGE.--55 years (1919-74), 147 ft³/s (4.16 m³/s), 89.52 in/yr (2,274 mm/yr), 106,500 acre-ft/yr (131 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,530 ft³/s (100 m³/s) Jan. 15, gage height, 5.95 ft (1.814 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 24-30.

Period of record: Maximum discharge, 5,320 ft³/s (151 m³/s) Nov. 20, 1921, gage height, 9.18 ft (2.798 m), site and datum then in use, from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum, 8 ft³/s (0.23 m³/s) Aug. 20, Sept. 16, 17, 1940.

REMARKS.--Records excellent. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1154: 1949. WSP 1248: Drainage area. WSP 1288: 1912, 1920-21(M), 1922-23, 1931, 1945. WSP 1318: 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	470	349	245	563	198	357	189	160	76	34	23
2	47	241	310	195	352	189	306	180	174	66	34	22
3	42	163	289	160	263	163	248	166	171	60	33	22
4	39	139	248	139	357	183	214	171	439	60	32	22
5	36	118	211	118	263	486	238	208	418	65	31	23
6	64	110	297	110	214	444	278	221	252	58	30	22
7	77	106	1,110	102	180	289	297	227	234	54	30	22
8	53	130	566	95	160	214	238	217	177	58	30	22
9	43	547	318	88	147	177	252	198	160	83	29	28
10	38	569	231	83	135	169	352	282	163	72	28	26
11	41	564	211	80	126	189	737	394	186	93	28	23
12	65	704	227	112	118	198	508	344	195	72	28	22
13	56	525	259	331	114	177	314	208	189	80	28	21
14	56	371	248	554	163	140	241	217	180	55	29	20
15	48	809	404	2,100	195	357	221	211	150	52	28	20
16	44	883	879	1,280	289	413	183	204	128	50	27	20
17	41	444	1,030	715	214	514	180	189	135	74	26	19
18	38	282	497	554	318	322	180	247	137	93	27	19
19	36	204	322	566	624	241	163	366	126	74	35	19
20	44	245	509	352	352	198	227	310	110	63	58	18
21	98	217	695	255	263	169	214	234	100	57	36	29
22	77	268	461	371	284	152	204	214	100	53	30	25
23	92	274	603	641	169	135	192	145	90	50	29	18
24	166	266	560	492	147	133	180	238	83	48	28	17
25	218	289	531	579	188	130	186	322	82	48	26	17
26	152	301	366	604	183	160	183	326	83	44	26	17
27	111	601	1,230	560	171	190	195	265	91	42	25	17
28	227	855	1,070	655	201	231	214	284	83	39	24	17
29	215	616	881	607	------	361	180	177	77	39	24	17
30	194	675	675	563	------	433	195	152	77	37	23	17
31	667	------	396	715	------	357	------	150	------	38	24	------
TOTAL	3,122	11,356	15,546	13,731	6,650	7,751	7,663	7,250	4,750	1,829	921	624
MEAN	101	379	501	443	238	250	255	234	158	59.0	29.7	20.8
MAX	667	883	1,230	2,100	624	514	737	394	439	93	58	29
MIN	36	106	211	80	114	133	163	150	77	36	23	17
CFSM	4.53	17.0	22.5	19.9	10.7	11.2	11.4	10.5	7.04	2.65	1.33	.93
IN.	5.21	18.96	25.96	22.91	11.10	12.93	12.78	12.10	7.92	3.05	1.54	1.04
AC-FT	6,190	22,520	30,830	27,240	13,200	15,370	15,200	14,380	9,420	3,630	1,830	1,240

CAL YR 1973 TOTAL 55,760 MEAN 153 MAX 1,230 MIN 36 CFSM 6.86 IN 93.00 AC-FT 110,600
WTR YR 1974 TOTAL 81,223 MEAN 223 MAX 2,100 MIN 17 CFSM 10.0 IN 135.49 AC-FT 161,100

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	1500	4.86	1,540	12-27	2300	4.76	1,880
12- 7	0000	4.70	1,890	1-15	1800	5.95	3,530

14144800 MIDDLE FORK WILLAMETTE RIVER NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°35'50", long 122°27'20", in NW¼NE¼ sec.9, T.23 S., R.3 E., Lane County, in Willamette National Forest, on right bank 0.2 mi (0.3 km) upstream from Windfall Creek, 8.3 mi (13.4 km) upstream from Hills Creek Dam, 10.2 mi (16.4 km) south of Oakridge, and at mile 240.8 (387.4 km).

DRAINAGE AREA.--258 mi^2 (668 km^2).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,556.83 ft (474.522 m) above mean sea level (levels by Corps of Engineers). Prior to June 21, 1967, at site 0.5 mi (0.8 km) upstream at different datums. June 22, 1967, to June 23, 1971, water-stage recorder at same site at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--16 years, 830 ft^3/s (23.5 m^3/s), 43.69 in/yr (1,110 mm/yr), 601,300 acre-ft/yr (741 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 11,100 ft^3/s (314 m^3/s) Jan. 15, gage height, 11.62 ft (3.542 m); minimum, 232 ft^3/s (6.57 m^3/s) Oct. 17-19.

Period of record: Maximum discharge, 39,800 ft^3/s (1,130 m^3/s) Dec. 22, 1964, gage height, 16.96 ft (5.169 m), from floodmark, site and datum then in use, from rating curve extended above 5,100 ft^3/s (144 m^3/s) on basis of slope-area measurement of peak flow; minimum, 209 ft^3/s (5.92 m^3/s) Oct. 9, 10, 1968.

REMARKS.--Records excellent. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	810	2,540	1,660	1,700	1,100	2,340	1,420	1,380	957	468	356
2	255	573	1,820	1,410	1,320	1,080	2,170	1,340	1,630	879	456	356
3	249	496	1,480	1,210	1,100	928	1,760	1,280	1,740	817	452	356
4	247	512	1,270	1,080	1,090	858	1,490	1,290	1,900	791	444	352
5	247	817	1,130	972	1,020	950	1,420	1,500	2,490	779	440	349
6	258	1,280	1,170	907	921	1,210	1,480	1,820	2,140	761	432	345
7	271	964	3,190	837	851	979	1,340	1,970	1,780	725	424	345
8	255	3,010	2,780	785	817	844	1,250	2,000	1,520	702	420	345
9	249	3,040	1,970	743	798	785	1,230	1,870	1,420	719	416	349
10	244	3,290	1,650	702	798	755	1,110	1,570	1,490	690	408	345
11	244	3,550	1,590	673	798	779	1,130	1,400	1,770	667	408	337
12	244	4,190	1,540	810	791	935	1,200	1,370	2,000	634	408	334
13	241	2,790	1,750	1,990	755	943	1,100	1,220	2,050	612	404	330
14	239	2,410	1,610	3,040	755	2,140	1,030	1,120	2,080	606	400	326
15	239	2,520	1,670	7,740	761	3,060	1,020	1,040	1,950	606	396	326
16	236	2,700	1,820	8,890	964	2,780	972	957	1,710	590	392	323
17	236	2,030	2,800	5,530	935	3,050	994	914	1,720	590	392	326
18	233	1,530	2,310	4,330	1,380	2,410	1,120	865	1,770	590	392	323
19	236	1,210	1,760	4,460	2,330	1,940	1,100	824	1,690	586	404	316
20	271	1,210	1,980	2,920	1,530	1,650	1,030	791	1,390	573	404	316
21	524	1,120	2,840	2,200	1,260	1,450	1,010	779	1,250	565	392	312
22	544	1,030	2,250	1,780	1,090	1,320	1,100	791	1,230	553	388	312
23	520	972	1,920	1,510	957	1,220	1,190	844	1,200	540	380	309
24	536	1,010	1,800	1,320	893	1,150	1,200	914	1,130	524	376	309
25	500	1,050	2,630	1,230	900	1,200	1,110	1,150	1,080	516	376	309
26	428	994	2,030	1,150	972	1,300	1,020	1,560	972	508	372	309
27	392	1,150	2,160	1,090	928	1,360	957	1,770	907	500	368	305
28	416	1,810	3,080	1,040	1,010	1,660	928	1,680	893	508	364	305
29	440	3,020	3,770	979	------	1,920	972	1,480	893	496	364	305
30	392	3,060	3,050	928	------	2,830	1,180	1,320	957	488	360	302
31	484	------	2,120	1,340	------	2,340	------	1,260	------	476	360	------
TOTAL	10,132	54,148	65,480	65,256	29,424	46,926	36,953	40,109	46,132	19,548	12,460	9,832
MEAN	327	1,805	2,112	2,105	1,051	1,514	1,232	1,294	1,538	631	402	328
MAX	544	4,190	3,770	8,890	2,330	3,060	2,340	2,000	2,490	957	468	356
MIN	233	496	1,130	673	755	755	928	779	893	476	360	302
CFSM	1.27	7.00	8.19	8.16	4.07	5.87	4.78	5.02	5.96	2.45	1.56	1.27
IN.	1.46	7.81	9.44	9.41	4.24	6.77	5.33	5.78	6.65	2.82	1.80	1.42
AC-FT	20,100	107,400	129,900	129,400	58,360	93,080	73,300	79,560	91,500	38,770	24,710	19,500

CAL YR 1973 TOTAL 129,912 MEAN 356 MAX 4,190 MIN 233 CFSM 1.38 IN 18.73 AC-FT 257,700
WTR YR 1974 TOTAL 436,400 MEAN 1,196 MAX 8,890 MIN 233 CFSM 4.64 IN 62.97 AC-FT 865,600

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-11	2300	8.85	4,650	1-15	2100	11.62	11,100
12- 7	1600	8.83	4,630	3-14	2230	8.30	3,580
12-29	1800	8.83	4,630				

14144900 HILLS CREEK ABOVE HILLS CREEK LAKE, NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°40'30", long 122°22'10", in NW¼NW¼ sec.8, T.22 S., R.4 E., Lane County, in Willamette National Forest, on right bank 0.2 mi (0.3 km) downstream from Tufti Creek, 0.7 mi (1.1 km) upstream from Hills Creek Lake, 6.5 mi (10.5 km) southeast of Oakridge, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--52.7 mi^2 (136.5 km^2).

PERIOD OF RECORD.--October 1958 to current year. Prior to October 1971, published as Hills Creek above Hills Creek Reservoir.

GAGE.--Water-stage recorder. Datum of gage is 1,630.80 ft (497.068 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--16 years, 158 ft^3/s (4.47 m^3/s), 40.71 in/yr (1,034 mm/yr), 114,500 acre-ft/yr (141 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,490 ft^3/s (70.5 m^3/s) Jan. 16, gage height, 7.55 ft (2.301 m); minimum, 20 ft^3/s (0.57 m^3/s) Oct. 17-19.

Period of record: Maximum discharge, 10,700 ft^3/s (303 m^3/s) Dec. 22, 1964, gage height, 12.23 ft (3.728 m), from rating curve extended above 1,800 ft^3/s (51.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Nov. 1, 1958.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	187	609	395	402	232	506	315	273	125	43	30
2	23	105	451	321	311	220	464	287	346	97	41	30
3	23	83	357	260	251	167	388	263	372	84	40	30
4	22	79	300	215	235	139	318	263	385	83	40	30
5	22	215	250	166	209	153	296	324	460	83	39	30
6	23	371	253	148	180	226	284	415	422	81	39	30
7	31	250	920	135	162	167	251	443	346	78	38	28
8	25	820	716	120	153	134	226	443	279	76	37	28
9	23	865	518	108	153	120	232	405	260	76	37	30
10	24	880	430	99	157	116	215	318	302	76	36	30
11	23	895	399	92	157	122	254	273	392	78	36	28
12	24	986	374	148	153	170	299	276	432	73	36	28
13	23	633	434	521	139	170	263	223	436	72	36	28
14	22	549	374	825	136	405	226	195	436	72	35	27
15	21	577	388	1,680	141	659	209	175	388	72	35	27
16	21	684	455	1,970	232	640	183	155	333	67	34	27
17	21	532	712	1,230	209	707	183	136	346	67	34	26
18	20	388	584	1,070	273	555	217	127	359	67	34	26
19	21	288	451	1,110	551	450	209	122	318	64	39	26
20	34	288	574	703	405	385	189	122	241	64	39	25
21	113	257	755	506	327	324	180	122	212	62	36	25
22	99	215	556	419	270	284	203	136	209	59	34	25
23	85	194	441	355	212	248	223	148	189	56	34	25
24	81	232	402	299	177	223	238	172	165	53	32	25
25	73	225	539	284	183	244	215	257	155	50	31	24
26	62	201	444	260	212	276	195	355	125	49	32	24
27	52	250	441	244	189	284	175	382	107	49	31	24
28	73	504	574	244	203	352	170	330	105	50	31	24
29	77	760	780	223	------	426	177	276	113	48	30	24
30	64	720	656	203	------	624	251	232	136	46	30	24
31	96	------	507	290	------	524	------	223	------	44	30	------
TOTAL	1,345	13,233	15,644	14,643	6,382	9,746	7,439	7,913	8,642	2,121	1,099	808
MEAN	43.4	441	505	472	228	314	248	255	288	68.4	35.5	26.9
MAX	113	986	920	1,970	551	707	506	443	460	125	43	30
MIN	20	79	250	92	136	116	170	122	105	44	30	24
CFSM	.82	8.37	9.58	8.96	4.33	5.96	4.71	4.84	5.46	1.30	.67	.51
IN.	.95	9.34	11.04	10.34	4.50	6.88	5.25	5.59	6.10	1.50	.78	.57
AC-FT	2,670	26,250	31,030	29,040	12,660	19,330	14,760	15,700	17,140	4,210	2,180	1,600

CAL YR 1973 TOTAL 57,365 MEAN 157 MAX 986 MIN 17 CFSM 2.98 IN 40.49 AC-FT 113,800
WTR YR 1974 TOTAL 89,015 MEAN 244 MAX 1,970 MIN 20 CFSM 4.63 IN 62.83 AC-FT 176,600

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-11	2200	6.13	1,190	12-21	0100	5.58	860
11-16	1000	5.40	770	12-28	1630	5.61	873
11-20	0630	5.55	845	1-16	0630	7.55	2,490
12- 7	1200	6.38	1,300	3-16	2200	5.30	723
12-17	1000	5.36	860	3-17	0600	5.38	750

14145100 HILLS CREEK LAKE NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°42'30", long 122°25'25", in NW¼ sec.35, T.21 S., R.3 E., Lane County, in Willamette National Forest, near right end of Hills Creek Dam on Middle Fork Willamette River, 600 ft (183 m) downstream from Hills Creek, 3.5 mi (5.6 km) southeast of Oakridge, and at mile 232.5 (374.1 km).

DRAINAGE AREA.--389 mi^2 (1,008 km^2).

PERIOD OF RECORD.--August 1961 to current year. Prior to October 1971, published as Hills Creek Reservoir near Oakridge.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 350,300 acre-ft (432 hm^3) June 22, July 28-31, elevation, 1,541.10 ft (469.727 m); minimum, 159,300 acre-ft (196 hm^3) Jan. 12, elevation, 1,450.46 ft (442.100 m).

Period of record: Maximum contents, 354,200 acre-ft (437 hm^3) June 25, 1971, elevation, 1,542.52 ft (470.160 m); minimum, 104,300 acre-ft (129 hm^3) Jan. 2, 1969, elevation, 1,412.52 ft (430.536 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed in 1961 by the Corps of Engineers; storage began August 1961. Total capacity is 355,600 acre-ft (438 hm^3) at elevation 1,543.0 ft (470.31 m), top of spillway gates, and usable capacity is 248,900 acre-ft (307 hm^3) between elevations 1,414.0 ft (430.98 m), minimum power pool, and 1,543.0 ft (470.31 m). Reservoir used for flood control and power generation. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,410	101,500	1,460	174,900	1,520	297,200
1,420	114,600	1,480	211,000	1,540	347,300
1,440	143,000	1,500	251,900	1,544	358,500

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243,800	181,300	213,700	180,500	201,900	232,600	287,000	309,600	345,600	350,100	349,900	321,600
2	241,400	179,700	212,800	176,800	200,600	235,700	288,600	310,400	346,200	349,800	349,800	319,800
3	238,900	178,300	210,800	175,200	198,500	238,200	288,500	311,000	346,900	349,700	349,800	318,000
4	237,100	176,900	208,100	174,700	197,100	239,500	287,000	311,700	348,200	349,700	349,800	316,200
5	235,100	176,800	204,900	174,300	197,100	240,300	285,800	312,800	349,300	349,700	349,900	314,500
6	232,800	178,200	202,000	173,700	196,900	241,700	285,600	314,900	348,800	349,700	350,100	313,200
7	230,300	178,400	209,100	172,800	196,600	242,100	285,500	317,400	348,100	349,700	350,000	313,100
8	227,900	185,800	213,600	169,600	196,400	242,700	285,300	319,800	348,200	350,100	349,900	312,900
9	225,300	193,300	213,900	166,100	196,600	244,500	285,500	321,900	348,300	350,100	349,900	311,800
10	222,900	201,600	212,100	162,900	196,900	246,100	285,900	323,200	348,500	350,100	349,900	310,000
11	220,300	209,100	209,600	160,000	197,200	246,600	286,600	324,100	349,200	350,000	349,900	308,100
12	217,900	220,400	206,300	159,400	198,900	246,900	287,600	325,000	349,600	349,900	349,800	306,300
13	215,400	226,300	203,800	163,500	200,400	247,500	288,200	326,300	349,700	349,900	349,700	304,400
14	212,900	229,100	200,600	172,400	201,600	253,300	288,400	327,300	349,700	349,900	348,400	302,500
15	210,500	233,100	197,800	197,100	203,300	262,000	289,000	328,800	349,400	349,900	347,100	300,600
16	207,900	238,100	195,700	222,900	205,900	268,600	290,100	329,900	349,300	350,000	345,400	298,800
17	206,000	236,800	194,800	237,800	208,200	275,700	291,400	331,000	349,600	350,000	343,600	296,900
18	204,100	231,700	195,500	249,000	212,700	280,200	292,900	332,000	349,900	350,100	341,900	295,100
19	202,100	226,700	192,400	257,400	220,200	282,400	293,800	332,800	350,000	350,100	340,300	293,200
20	199,500	223,700	190,200	257,200	223,300	282,500	293,800	333,600	350,100	350,000	338,600	291,300
21	198,300	220,500	190,900	252,900	224,800	282,000	294,900	334,300	350,200	350,000	336,900	289,400
22	196,700	217,200	189,300	247,200	225,600	281,000	296,400	335,000	350,300	350,000	335,200	287,600
23	195,000	213,600	186,500	240,700	227,400	279,700	297,500	335,900	350,200	350,000	333,300	285,700
24	193,800	210,600	183,500	233,800	229,300	278,200	298,500	337,400	350,000	350,000	332,500	284,300
25	192,600	207,800	182,900	227,100	229,900	276,900	298,800	339,100	350,000	349,900	332,100	283,700
26	191,100	204,800	180,600	220,700	230,400	275,600	299,900	341,800	349,900	350,000	331,600	283,400
27	188,900	202,300	178,700	214,800	230,500	275,000	301,900	345,000	350,000	350,200	330,400	282,400
28	186,900	202,600	180,100	209,100	231,100	275,300	303,800	346,500	350,000	350,300	328,600	280,500
29	185,300	207,300	184,500	206,400	-------	276,700	305,400	346,600	350,000	350,300	326,400	278,600
30	183,600	211,800	185,900	203,400	-------	281,400	307,200	346,300	350,100	350,200	325,100	276,800
31	181,900	-------	186,000	202,000	-------	284,000	-------	345,800	-------	350,300	323,400	-------
MAX	243,800	238,100	213,900	257,400	231,100	284,000	307,200	346,600	350,300	350,300	350,100	321,600
MIN	181,900	176,800	178,700	159,400	196,400	232,600	285,300	309,600	345,600	349,700	323,400	276,800
(†)	1,464.08	1,480.43	1,466.32	1,475.27	1,490.14	1,514.36	1,524.18	1,539.43	1,541.06	1,541.10	1,530.70	1,511.20
(‡)	-66,300	+29,900	-25,800	+16,000	+29,100	+52,900	+23,200	+38,600	+4,300	+200	-26,900	-46,600

WTR YR 1974 MAX 350,300 MIN 159,400 AC-FT ‡ +28,600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14145500 MIDDLE FORK WILLAMETTE RIVER ABOVE SALT CREEK, NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°43'20", long 122°26'15", in NW¼NE¼ sec.27, T.21 S., R.3 E., Lane County, in Willamette National Forest, on right bank 90 ft (27 m) upstream from highway bridge, 0.4 mi (0.6 km) upstream from Salt Creek, 1.1 mi (1.8 km) downstream from Hills Creek Dam, 2.3 mi (3.7 km) southeast of Oakridge, and at mile 231.4 (372.3 km).

DRAINAGE AREA.--392 mi² (1,015 km²).

PERIOD OF RECORD.--October 1913 to September 1914, September 1935 to current year. Monthly discharge only September 1935, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,208.01 ft (368.201 m) above mean sea level (levels by Corps of Engineers). Oct. 3, 1913, to Sept. 30, 1914, nonrecording gage and Sept. 1, 1935, to Aug. 18, 1960, water-stage recorder at sites 400 ft (122 m) and 1,000 ft (305 m) downstream, respectively, at different datum.

AVERAGE DISCHARGE.--40 years, 1,161 ft³/s (32.9 m³/s), 40.22 in/yr (1,022 mm/yr), 841,100 acre-ft/yr (1.04 km³/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,210 ft³/s (176 m³/s) Jan. 20, 21, gage height, 6.97 ft (2.124 m); minimum, 234 ft³/s (6.63 m³/s) Sept. 24.

Period of record: Maximum discharge, 34,000 ft³/s (963 m³/s) Dec. 28, 1945, gage height, 12.06 ft (3.676 m), site and datum then in use, from rating curve extended above 13,000 ft³/s (368 m³/s); minimum observed, 0.70 ft³/s (0.020 m³/s) Sept. 8-11, 13, 1961.

REMARKS.--Records excellent. Flow regulated since 1961 by Hills Creek Lake (see station 14145100). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1248: 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	1,550	3,410	4,480	3,010	1,280	2,530	750	1,940	1,260	585	1,310
2	1,530	1,520	3,410	4,220	2,810	356	2,760	1,450	1,940	1,240	515	1,310
3	1,550	1,490	3,400	2,640	2,900	319	2,930	1,460	1,970	1,040	485	1,310
4	1,210	1,490	3,400	1,770	2,610	744	3,170	1,460	1,980	1,010	495	1,310
5	1,300	1,510	3,380	1,540	1,650	1,230	2,880	1,460	2,960	984	404	1,310
6	1,570	1,520	3,360	1,540	1,570	1,530	2,300	1,470	3,240	949	384	1,080
7	1,590	1,530	2,310	1,540	1,480	1,490	2,090	1,480	2,750	858	495	420
8	1,590	1,560	2,230	2,610	1,350	1,080	2,060	1,490	2,040	756	444	412
9	1,590	1,560	3,010	2,620	1,070	326	1,700	1,490	1,860	852	444	970
10	1,600	1,540	3,460	2,580	1,050	326	1,490	1,470	1,890	870	452	1,310
11	1,600	1,520	3,850	2,340	1,080	1,030	1,480	1,420	2,040	864	440	1,310
12	1,600	1,530	4,280	1,550	333	1,430	1,480	1,410	2,520	846	420	1,310
13	1,580	1,530	4,580	1,570	319	1,410	1,480	984	2,680	750	460	1,320
14	1,600	2,480	4,520	1,600	510	1,410	1,480	1,040	2,760	726	1,090	1,340
15	1,590	2,360	4,400	1,680	326	1,440	1,250	702	2,790	726	1,060	1,330
16	1,590	2,360	4,340	1,610	319	1,560	864	702	2,260	732	1,330	1,320
17	1,310	4,380	4,540	1,530	323	1,560	822	702	2,140	672	1,320	1,320
18	1,300	5,420	4,700	1,820	330	1,560	804	702	2,150	690	1,320	1,330
19	1,380	4,800	4,640	3,280	672	1,920	1,170	708	2,180	714	1,290	1,330
20	1,600	3,540	4,600	5,200	1,310	2,470	1,480	702	1,770	708	1,310	1,340
21	1,600	3,510	4,600	6,190	1,480	2,470	876	702	1,600	672	1,320	1,320
22	1,580	3,480	4,560	6,150	1,470	2,470	840	702	1,620	640	1,320	1,320
23	1,580	3,440	4,500	6,060	650	2,470	1,140	702	1,620	620	1,310	1,310
24	1,340	3,410	4,440	5,990	505	2,460	1,230	702	1,570	625	846	1,100
25	1,290	3,380	4,420	5,800	1,130	2,470	1,470	702	1,390	590	600	620
26	1,320	3,360	4,400	5,510	1,400	2,470	900	702	1,310	485	605	515
27	1,600	3,320	4,420	5,090	1,540	2,470	316	702	1,100	500	1,090	822
28	1,610	3,320	4,440	4,840	1,540	2,470	309	1,440	1,110	545	1,310	1,320
29	1,400	3,380	4,500	3,000	-----	2,440	525	1,980	1,120	560	1,310	1,320
30	1,350	3,400	4,580	2,900	-----	2,420	750	1,950	1,200	610	1,310	1,320
31	1,570	------	4,560	2,920	-----	2,520	------	1,950	------	610	1,310	------
TOTAL	46,450	79,190	125,240	102,250	4,737	51,601	44,576	35,206	59,500	23,704	27,074	34,959
MEAN	1,498	2,640	4,040	3,298	1,241	1,665	1,486	1,138	1,983	765	873	1,165
MAX	1,610	5,420	4,700	6,190	3,010	2,520	3,170	1,980	3,240	1,260	1,330	1,340
MIN	1,210	1,490	2,230	1,530	319	319	309	702	1,100	485	384	412
AC-FT	92,130	157,100	248,400	202,800	8,900	102,400	88,420	69,990	118,000	47,020	53,700	69,340
MEAN†	453	3,143	3,588	3,581	1,765	2,526	1,876	1,766	2,055	768	436	382
CFSM†	1.16	8.02	9.15	9.14	4.50	6.44	4.79	4.51	5.24	1.96	1.11	.97
IN.†	1.33	8.95	10.55	10.54	4.69	7.43	5.34	5.20	5.85	2.26	1.28	1.09
AC-FT†	27,850	187,000	220,600	220,200	98,000	155,300	111,620	108,590	122,300	47,220	26,800	22,740

CAL YR 1973 TOTAL 413,750 MEAN 1,134 MAX 5,420 MIN 142 AC-FT 820,700 MEAN† 1,170 CFSM† 2.98 IN.† 40.52 AC-FT† 846,900
WTR YR 1974 TOTAL 664,567 MEAN 1,821 MAX 6,190 MIN 309 AC-FT 1,318,000 MEAN† 1,863 CFSM† 4.75 IN.† 64.52 AC-FT† 1,348,600

† Adjusted for change in contents in Hills Creek Lk.

14146500 SALMON CREEK NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°45'45", long 122°17'20", in NE¼ sec.7, T.21 S., R.4 E., Lane County, Willamette National Forest, on right bank 190 ft (58 m) upstream from Salmon Creek Falls, 0.1 mi (0.2 km) upstream from Needle Creek, 4.6 mi (7.4 km) east of Oakridge, and at mile 5.84 (9.40 km).

DRAINAGE AREA.--117 mi² (303 km²), at measuring cable 0.6 mi (1.0 km) downstream from gage.

PERIOD OF RECORD.--October to November 1909 (gage heights and one discharge measurement only), February 1913 to October 1919, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as Kelsey River near Hazeldell and Salmon Creek near Hazeldell, 1909.

GAGE.--Water-stage recorder. Datum of gage is 1,462.36 ft (445.727 m) above mean sea level. Prior to Oct. 1, 1914, nonrecording gage at several sites within 4 mi (6 km) of present site at various datums. Oct. 1, 1914, to Oct. 14, 1919, water-stage recorder at site 1.8 mi (2.9 km) downstream at different datum. Nov. 5, 1933, to Oct. 27, 1964, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 40.53 ft (12.354 m) lower. Oct. 28, 1964, to Aug. 27, 1965, nonrecording gage at site 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--47 years (1913-19, 1933-74), 428 ft³/s (12.1 m³/s), 49.68 in/yr (1,262 mm/yr), 310,100 acre-ft/yr (382 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,280 ft³/s (121 m³/s) Jan. 15, gage height, 5.95 ft (1.814 m); minimum, 110 ft³/s (3.12 m³/s) Oct. 15-19.

Period of record: Maximum discharge, 11,600 ft³/s (329 m³/s) Dec. 22, 1964, gage height, 9.15 ft (2.789 m), from floodmark, site and datum then in use, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 63 ft³/s (1.78 m³/s) Jan. 8, 1937.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station. All records given herein are for measuring cable site.

REVISIONS (WATER YEARS).--WSP 794: 1934(M). WSP 814: Drainage area. WSP 1124: 1935, 1942(M), 1943, 1946(M). WSP 1248: 1915, 1918. WRD 1971 Oreg.: 1968, 1969(M,P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	577	1,300	1,100	832	664	1,500	816	792	524	226	180
2	125	395	1,040	944	752	636	1,400	776	928	468	218	173
3	122	318	904	824	664	566	1,200	736	996	434	218	173
4	122	296	792	752	671	524	1,100	744	1,310	410	214	173
5	122	453	713	671	629	650	1,000	840	2,290	404	214	173
6	125	577	706	615	573	792	1,000	1,030	1,840	386	210	173
7	140	470	1,370	580	524	643	950	1,120	1,340	375	210	173
8	130	1,100	1,460	552	496	545	900	1,150	1,070	365	210	173
9	120	1,460	1,130	503	503	482	900	1,070	960	365	206	173
10	113	1,480	969	454	503	454	650	904	969	350	206	176
11	113	1,430	936	416	510	461	1,000	808	1,090	350	206	176
12	119	1,770	888	440	503	517	1,200	808	1,200	330	206	169
13	119	1,380	904	657	482	524	1,000	728	1,200	315	202	169
14	116	1,100	840	1,040	489	1,190	900	678	1,220	315	202	169
15	116	1,030	880	3,010	489	2,150	800	643	1,130	315	202	166
16	110	1,190	960	3,500	573	1,860	750	615	996	305	194	166
17	110	1,070	1,310	2,600	566	1,870	750	573	996	300	194	166
18	110	864	1,240	2,180	1,000	1,550	800	545	1,020	300	194	166
19	113	699	1,060	2,260	1,250	1,180	750	524	960	295	206	166
20	137	664	1,030	1,680	978	996	700	510	816	285	202	162
21	243	629	1,160	1,240	840	950	700	489	744	280	198	162
22	211	580	1,060	1,020	752	900	750	510	728	275	194	162
23	203	566	987	880	664	850	800	531	699	270	190	162
24	223	608	1,020	776	629	800	750	566	657	260	190	162
25	211	608	1,440	760	608	850	700	685	622	255	187	159
26	187	587	1,180	752	580	850	650	888	545	250	183	159
27	168	657	1,210	728	566	900	629	1,010	503	245	183	159
28	207	1,040	1,680	713	622	1,000	601	960	482	245	183	159
29	243	1,570	2,050	671	------	1,200	808	840	482	240	180	159
30	207	1,510	1,830	622	------	1,500	706	752	524	235	180	155
31	323	------	1,350	678	------	1,400	------	736	------	230	180	------
TOTAL	4,836	26,678	35,399	33,618	18,248	29,454	26,344	23,585	29,109	9,976	6,188	5,013
MEAN	156	889	1,142	1,084	652	950	878	761	970	322	200	167
MAX	323	1,770	2,050	3,500	1,250	2,150	1,500	1,150	2,290	524	226	180
MIN	110	296	706	416	482	454	601	489	482	230	180	155
CFSM	1.33	7.60	9.76	9.27	5.57	8.12	7.50	6.50	8.29	2.75	1.71	1.43
IN.	1.54	8.48	11.26	10.69	5.80	9.36	8.38	7.50	9.26	3.17	1.97	1.59
AC-FT	9,590	52,920	70,210	66,680	36,190	58,420	52,250	46,780	57,740	19,790	12,270	9,940

CAL YR 1973 TOTAL 144,112 MEAN 395 MAX 2,050 MIN 110 CFSM 3.38 IN 45.87 AC-FT 285,800
WTR YR 1974 TOTAL 248,448 MEAN 681 MAX 3,500 MIN 110 CFSM 5.82 IN 78.99 AC-FT 492,800

PEAK DISCHARGE (BASE, 1,700 CFS)

Note.--No gage-height record Mar. 31 to Apr. 30.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1100	4.06	1,960	1-15	2000	5.95	4,280
11-29	0500	3.76	1,710	3-15	0500	4.36	2,560
12- 7	1700	3.87	1,830	6- 5	0900	4.47	2,600
12-29	0800	4.03	2,330				

14146950 WALDO LAKE NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°46'05", long 122°03'10", in SE¼NW¼ sec.7, T.21 S., R.6 E., Lane County, Willamette National Forest, on left bank at head of artificial outlet channel for Waldo Lake, at headwaters of the North Fork of the Middle Fork Willamette River, 20 mi (32 km) east of Oakridge, and at mile 43.51 (70.0 km).

DRAINAGE AREA.--30.5 mi^2 (79.0 km^2).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 5,410 ft (1,649.0 m), from topographic map; gage readings have been reduced to elevations above mean sea level. Present gage is at same site and datum as former gage for Waldo Lake outlet near Oakridge (see sta 14147000) for period 1936-53.

EXTREMES.--Current year: Maximum contents observed, 772,600 acre-ft (953 hm^3) July 19, elevation, 5,412.26 ft (1,649.657 m); minimum observed, 759,900 acre-ft (937 hm^3) Oct. 1, elevation, 5,410.22 ft (1,649.035 m).

Period of record: Maximum contents observed, 778,900 acre-ft Mar. 18, 1971, elevation, 5,413.25 ft (1,649.969 m); minimum observed, 759,900 acre-ft (937 hm^3) Oct. 1, 1973, elevation 5,410.22 ft (1,649.035 m).

REMARKS.--Lake not regulated. Lake level was lowered approximately 0.5 ft (0.2 m) when low rock dam in artificial outlet channel was removed Sept. 23, 1971. Lake outlet is an old artificial outlet channel 30 ft (9 m) below the gage. Diversion tunnel into head of Black Creek, near south end of lake, built about 1914, is not used; but leakage past old control gates was measured at 0.51 ft^3/s (0.014 m^3/s) Sept. 5, 1974. The maximum stage of the lake during period 1936-53 was 5,412.98 ft (1,649.876 m), which occurred Jan. 2, 1943. At times during this period the lake elevation could have been as much as 2 ft (0.6 m) below elevation 5,410 ft (1,649.0 m). A high-water mark noted Sept. 3, 1936, indicated that an elevation of 5,413.2 ft (1,649.94 m) had occurred sometime previous to that date. See station 14147000 for lake elevations for period 1936-53.

COOPERATION.--Waldo Lake bathymetric chart, used to compute capacity table, furnished by Environmental Protection Agency.

ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)
Oct. 1	5,410.22	759,900
31	5,410.34	760,600
July 19	5,412.26	772,600
Sept. 5	5,411.22	766,100

14147000 WALDO LAKE OUTLET NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°46'05", long 122°03'10", in SW¼NW¼ sec.7, T.21 S., R.6 E., Lane County, in Willamette National Forest, on right bank of artificial outlet channel of Waldo Lake forming the headwaters of the North Fork of the Middle Fork of Willamette River, 20 mi (32 km) east of Oakridge, and at mile 43.5 (70.0 km).

DRAINAGE AREA.--30.5 mi² (79.0 km²), of which about 10.5 mi² (27.2 km²) is Waldo Lake.

PERIOD OF RECORD.--October 1936 to September 1953, October 1969 to current year.

GAGE.--Water-stage recorder and modified v-notch weir. Altitude of gage is 5,410 ft (1,649 m), from topographic map. October 1936 to September 1953, at site 120 ft (37 m) upstream on left bank at same datum.

AVERAGE DISCHARGE.--22 years, 35.0 ft³/s (0.99 m³/s), 25,360 acre-ft/yr (31.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 110 ft³/s (3.12 m³/s) Mar. 15, gage height, 2.34 ft (0.713 m); no flow Oct. 14-21.

Period of record: Maximum discharge, 150 ft³/s (4.25 m³/s) Jan. 20, 1971, from rating curve extended above 77 ft³/s (2.18 m³/s) and adjusted for overbank flow; maximum gage height, 2.98 ft (0.908 m) Jan. 2, 1943; no flow at times.

A high-water mark in the channel of a previous high stage in the lake was noted on Sept. 3, 1936, as 3.2 ft (0.98 m) gage height, affected by seiche.

REMARKS.--Records good. At times seiches from Waldo Lake cause rapid changes in stage at gage many times each hour. No regulation. Diversion tunnel into head of Black Creek, near south end of lake, built about 1914, is sealed off, but there is leakage of about 0.51 ft³/s (0.014 m³/s) past control gates, measured Sept. 5, 1974.

REVISIONS.--WSP 2135: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	3.0	50	77	100	93	97	72	60	83	55	24
2	.47	3.0	50	75	98	95	101	71	59	83	54	23
3	.44	2.7	50	75	95	94	101	69	60	82	53	22
4	.38	3.5	50	75	98	93	98	68	64	82	51	22
5	.32	6.7	50	75	99	96	96	67	74	82	50	22
6	.30	11	49	75	96	100	96	66	77	82	48	21
7	.30	11	52	75	95	98	95	66	78	82	47	20
8	.32	14	53	75	92	95	93	65	78	83	45	20
9	.27	15	53	75	90	93	93	64	78	82	44	20
10	.22	16	51	75	88	91	93	66	78	82	43	19
11	.17	17	51	75	86	90	93	66	78	81	41	18
12	.19	20	52	75	84	90	93	67	78	80	40	17
13	.09	21	55	71	83	96	91	66	78	78	39	17
14	.01	23	55	68	83	103	88	67	79	78	38	15
15	0	24	57	77	82	107	86	69	80	76	37	15
16	0	26	55	86	83	105	84	70	81	75	35	14
17	0	27	57	90	85	106	82	70	82	75	35	14
18	0	27	57	92	89	103	81	72	83	74	34	13
19	0	28	57	98	95	101	79	71	84	71	34	13
20	0	29	57	98	95	98	78	70	84	70	33	13
21	.22	32	57	97	95	95	77	69	86	69	33	13
22	.44	34	57	96	97	93	75	67	86	67	32	12
23	.51	35	57	94	96	90	78	66	86	66	31	12
24	.62	38	59	94	93	89	79	65	86	65	30	11
25	.62	41	62	95	91	87	78	64	86	64	29	11
26	.62	43	62	97	91	86	78	63	86	62	29	10
27	.58	46	65	98	91	85	77	63	86	62	28	9.9
28	.73	47	72	98	92	88	76	62	86	61	27	9.5
29	.84	50	76	96	------	90	75	62	83	58	26	9.5
30	.78	52	80	95	------	94	73	62	83	58	25	8.9
31	1.5	------	78	95	------	94	------	61	------	57	25	------
TOTAL	11.64	745.9	1,786	2,635	2,562	2,938	2,584	2,066	2,367	2,271	1,171	468.7
MEAN	.38	24.9	57.6	85.0	91.5	94.8	86.1	66.6	78.9	73.3	37.8	15.6
MAX	1.5	52	80	98	100	107	101	72	86	83	55	24
MIN	0	2.7	49	68	82	85	73	61	59	57	25	8.9
AC-FT	23	1,480	3,540	5,230	5,080	5,830	5,130	4,100	4,690	4,500	2,320	930

CAL YR 1973 TOTAL 9,262.90 MEAN 25.4 MAX 93 MIN 0 AC-FT 18,370
WTR YR 1974 TOTAL 21,606.24 MEAN 59.2 MAX 107 MIN 0 AC-FT 42,860

14147500 NORTH FORK OF MIDDLE FORK WILLAMETTE RIVER NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°45'25", long 122°30'15", in SW¼ sec.7, T.21 S., R.3 E., Lane County, on left bank 2.5 mi (4.0 km) northwest of Oakridge and at mile 1.0 (1.6 km).

DRAINAGE AREA.--246 mi² (637 km²), at measuring section 0.5 mi (0.8 km) downstream.

PERIOD OF RECORD.--October 1909 to March 1916, September 1935 to current year. Monthly discharge only for some periods, published in WSP 1318. Prior to October 1912, published as "near Hazeldell."

GAGE.--Water-stage recorder. Datum of gage is 1,029.6 ft (313.82 m) above mean sea level (river profile survey). Oct. 1, 1909, to Mar. 31, 1916, water-stage recorder or nonrecording gage at several sites within 0.8 mi (1.3 km) of present site at various datums Sept. 10, 1935, to Oct. 3, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--45 years (1909-15, 1935-74), 797 ft³/s (22.6 m³/s), 44.00 in/yr (1,118 mm/yr), 577,400 acre-ft/yr (712 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,340 ft³/s (208 m³/s) Jan. 15, 16, gage height, 9.08 ft (2.768 m); minimum 105 ft³/s (2.97 m³/s) Oct. 1.

Period of record: Maximum discharge, 24,400 ft³/s (691 m³/s) Dec. 22, 1964, gage height, 19.14 ft (5.834 m), from floodmark, from rating curve extended above 7,100 ft³/s (201 m³/s) on basis of slope-area measurement of peak flow; minimum, 22 ft³/s (0.62 m³/s) Aug. 20, 1966.

REMARKS.--Records excellent. Slight natural regulation by Waldo Lake; occasional fluctuations during low-water periods caused by log-ponds above station. No diversions above station. All records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 1248: 1914-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	1,110	2,410	2,080	1,900	1,210	2,530	1,420	1,110	708	291	194
2	160	699	1,910	1,700	1,590	1,170	2,460	1,330	1,300	659	280	191
3	158	537	1,680	1,440	1,360	1,040	2,110	1,230	1,400	609	280	188
4	153	515	1,510	1,240	1,400	980	1,820	1,210	1,700	582	277	188
5	150	704	1,350	1,090	1,300	1,270	1,700	1,390	2,970	569	273	185
6	153	975	1,370	970	1,150	1,640	1,720	1,670	2,530	551	270	185
7	165	795	3,200	885	1,040	1,270	1,600	1,780	1,930	524	263	183
8	153	1,650	3,060	825	970	1,070	1,490	1,810	1,540	515	259	180
9	148	2,290	2,300	771	940	960	1,490	1,690	1,370	524	256	183
10	145	2,580	1,920	713	935	910	1,410	1,450	1,350	498	249	188
11	145	2,630	1,790	672	935	890	1,770	1,300	1,510	510	245	183
12	150	3,340	1,720	726	915	986	2,030	1,370	1,670	478	242	178
13	145	2,700	1,820	1,140	870	980	1,710	1,230	1,680	454	239	175
14	143	2,200	1,680	1,870	890	2,140	1,520	1,120	1,700	442	239	170
15	140	2,170	1,780	5,010	905	3,720	1,420	1,080	1,610	434	236	168
16	138	2,420	1,870	5,660	1,110	3,220	1,300	1,020	1,400	422	230	165
17	138	2,120	2,790	4,340	1,100	3,480	1,270	950	1,370	410	227	165
18	135	1,680	2,610	3,770	1,440	2,840	1,340	910	1,400	406	227	163
19	138	1,340	2,110	4,140	2,660	2,340	1,320	890	1,350	398	245	163
20	175	1,330	2,080	3,040	1,960	2,020	1,240	845	1,140	386	249	160
21	322	1,310	2,730	2,320	1,650	1,780	1,190	815	1,030	374	233	158
22	326	1,210	2,340	1,890	1,440	1,630	1,250	820	986	362	224	155
23	273	1,150	2,190	1,630	1,250	1,490	1,320	845	945	354	221	155
24	312	1,260	2,140	1,420	1,140	1,400	1,450	880	890	347	215	153
25	329	1,290	3,140	1,380	1,080	1,420	1,390	1,010	810	336	212	150
26	273	1,220	2,430	1,370	1,120	1,500	1,250	1,290	771	329	209	150
27	239	1,360	2,560	1,330	1,080	1,540	1,160	1,440	708	322	206	150
28	280	1,970	3,810	1,310	1,150	1,770	1,110	1,390	681	315	203	150
29	362	2,600	4,050	1,210	------	1,930	1,100	1,240	677	312	203	150
30	294	2,610	3,540	1,120	------	2,560	1,230	1,100	704	305	200	145
31	478	------	2,670	1,380	------	2,450	------	1,030	------	298	197	------
TOTAL	6,483	49,765	72,560	58,442	35,280	53,606	45,700	37,555	40,232	13,733	7,400	5,071
MEAN	209	1,659	2,341	1,885	1,260	1,729	1,523	1,211	1,341	443	239	169
MAX	478	3,340	4,050	5,660	2,660	3,720	2,530	1,810	2,970	708	291	194
MIN	135	515	1,350	672	870	890	1,100	815	677	298	197	145
CFSM	.85	6.74	9.52	7.66	5.12	7.03	6.19	4.92	5.45	1.80	.97	.69
IN.	.98	7.53	10.97	8.84	5.34	8.11	6.91	5.68	6.08	2.08	1.12	.77
AC-FT	12,860	98,710	143,900	115,900	69,980	106,300	90,650	74,490	79,800	27,240	14,680	10,060

CAL YR 1973 TOTAL 260,249 MEAN 713 MAX 4,050 MIN 88 CFSM 2.90 IN 39.35 AC-FT 516,200
WTR YR 1974 TOTAL 425,827 MEAN 1,167 MAX 5,660 MIN 135 CFSM 4.74 IN 64.39 AC-FT 844,600

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1400	6.44	3,640	1-15	2000	9.08	7,340
12- 7	1530	6.87	4,120	3-15	0430	6.90	4,160
12-29	2000	7.16	4,500				

14148000 MIDDLE FORK WILLAMETTE RIVER BELOW NORTH FORK, NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°48'05", long 122°33'35", in SW¼ sec.27, T.20 S., R.2 E., Lane County, on left bank 0.5 mi (0.8 km) downstream from Whitehead Creek, 4.2 mi (6.8 km) downstream from North Fork of Middle Fork Willamette River, 7.0 mi (11.3 km) northwest of Oakridge, and at mile 220.2 (354.3 km).

DRAINAGE AREA.--924 mi^2 (2,393 km^2).

PERIOD OF RECORD.--March 1911 to September 1912, July 1923 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "near Hazeldell" 1911-12 and as "at Eula" 1923-50.

GAGE.--Water-stage recorder. Datum of gage is 934.76 ft (284.915 m) above mean sea level. Mar. 22, 1911, to Sept. 30, 1912, nonrecording gage at site 4.0 mi (6.4 km) upstream, just below North Fork at different datum. July 1, 1923, to Aug. 11, 1935, nonrecording gage and Aug. 12, 1935, to Sept. 30, 1950, water-stage recorder at site 4.0 mi (6.4 km) downstream at different datum.

AVERAGE DISCHARGE.--52 years, 2,779 ft^3/s (78.7 m^3/s), 2,013,000 acre-ft/yr (2.48 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Jan. 15, gage height, 6.94 ft (2.115 m); minimum, 740 ft^3/s (21.0 m^3/s) Sept. 24.

Period of record: Maximum discharge, 81,800 ft^3/s (2,320 m^3/s) Dec. 28, 1945, gage height, 18.8 ft (5.73 m), from floodmark, site and datum then in use, from rating curve extended above 39,000 ft^3/s (1,100 m^3/s); minimum, 322 ft^3/s (9.12 m^3/s) Aug. 30, 1961, caused by closing outlet gates at Hills Creek Dam.

Maximum stage since 1861 and prior to beginning of record, 17.0 ft (5.18 m) in February 1890 at site used 1923-50, from information by local resident, discharge, about 55,000 ft^3/s (1,560 m^3/s).

REMARKS.--Records excellent. Flow regulated since 1961 by Hills Creek Lake (see station 14145100); slight regulation at times by log-ponds above station. No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 694: 1925-28. WSP 814: Drainage area at Eula. WSP 1248: 1924, 1925(M), 1926-28, 1929(M), 1930, 1933, 1946(M). WSP 1398: 1927(M). WSP 1638: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	3,800	8,720	8,560	6,900	4,220	7,650	3,550	4,350	2,920	1,310	1,840
2	1,990	2,940	7,430	7,620	6,220	3,190	8,010	4,020	4,750	2,750	1,230	1,820
3	1,990	2,540	6,830	5,680	5,740	2,730	7,360	3,940	5,030	2,460	1,170	1,800
4	1,650	2,540	6,420	4,430	5,590	2,920	6,900	3,920	5,650	2,330	1,190	1,800
5	1,710	3,050	6,060	3,890	4,510	3,490	6,420	4,200	9,330	2,290	1,110	1,800
6	2,010	4,050	5,990	3,670	4,070	5,440	5,810	4,780	8,800	2,220	1,030	1,630
7	2,060	4,000	8,560	3,500	3,740	4,460	5,290	5,090	7,000	2,080	1,160	992
8	2,040	5,240	8,320	4,400	3,480	3,620	5,030	5,200	5,530	1,920	1,110	932
9	2,030	6,940	7,560	4,460	3,100	2,480	4,780	5,000	4,830	2,040	1,080	1,370
10	2,030	7,250	7,100	4,250	3,050	2,350	4,350	4,510	4,860	2,040	1,090	1,820
11	2,030	7,220	7,280	3,970	3,050	2,900	5,030	4,140	5,290	2,040	1,070	1,800
12	2,030	8,440	7,430	3,120	2,350	3,690	5,740	4,220	6,090	1,940	1,050	1,790
13	2,030	7,350	8,160	4,020	2,150	3,720	5,030	3,600	6,350	1,790	1,080	1,790
14	2,030	7,000	7,740	5,740	2,370	6,520	4,620	3,330	6,490	1,760	1,590	1,800
15	2,010	7,140	7,740	13,500	2,180	9,840	4,200	3,010	6,350	1,740	1,660	1,800
16	2,010	7,250	7,850	16,000	2,540	8,580	3,520	2,880	5,440	1,710	1,900	1,800
17	1,730	8,600	9,640	11,800	2,600	8,720	3,400	2,750	5,230	1,650	1,900	1,790
18	1,690	8,520	9,490	10,200	3,450	7,360	3,480	2,640	5,320	1,660	1,890	1,790
19	1,780	7,350	8,480	12,300	6,560	6,540	3,690	2,560	5,260	1,660	1,900	1,790
20	2,130	6,170	8,320	11,400	5,590	6,560	3,940	2,480	4,430	1,630	1,940	1,790
21	2,400	6,240	9,330	10,600	5,030	6,020	3,290	2,420	3,990	1,590	1,920	1,770
22	2,360	6,110	8,720	9,600	4,590	5,680	3,290	2,420	3,920	1,530	1,900	1,770
23	2,270	5,490	8,360	8,950	3,450	5,410	3,670	2,460	3,820	1,480	1,890	1,760
24	2,070	6,290	8,240	8,440	2,940	5,230	4,020	2,540	3,640	1,450	1,500	1,620
25	2,000	6,240	10,200	8,200	3,430	5,240	4,120	2,810	3,330	1,430	1,190	1,090
26	1,940	6,190	8,940	7,970	3,920	5,380	3,450	3,400	3,100	1,300	1,170	992
27	2,140	6,250	9,060	7,620	3,940	5,470	2,620	3,820	2,730	1,300	1,560	1,170
28	2,220	7,620	11,400	7,400	4,200	5,930	2,520	4,380	2,690	1,340	1,850	1,760
29	2,180	9,640	12,600	5,740	------	6,190	2,660	4,670	2,660	1,340	1,840	1,760
30	2,000	9,410	11,700	5,440	------	7,580	3,170	4,350	2,810	1,370	1,840	1,760
31	2,400	------	9,800	5,710	------	7,510	------	4,250	------	1,340	1,840	------
TOTAL	62,990	187,880	263,540	228,180	110,740	165,520	137,260	113,340	149,070	56,100	45,960	49,196
MEAN	2,032	6,263	8,501	7,361	3,955	5,339	4,575	3,656	4,969	1,810	1,483	1,640
MAX	2,400	9,640	12,600	16,000	6,900	9,840	8,010	5,200	9,330	2,920	1,940	1,840
MIN	1,650	2,540	5,990	3,120	2,150	2,350	2,520	2,420	2,660	1,300	1,030	932
AC-FT	124,900	372,700	522,700	452,600	219,700	328,300	272,300	224,800	295,700	111,300	91,160	97,580

CAL YR 1973 TOTAL 965,126 MEAN 2,644 MAX 12,600 MIN 820 AC-FT 1,914,000
WTR YR 1974 TOTAL 1,569,776 MEAN 4,301 MAX 16,000 MIN 932 AC-FT 3,114,000

14149000 LOOKOUT POINT LAKE NEAR LOWELL, OREG.

LOCATION.--Lat 43°54'50", long 122°45'00", SE¼ sec.13, T.19 S., R.1 W., Lane County, in elevator house at right end of spillway section of dam on Middle Fork Willamette River, 1.5 mi (2.4 km) east of Lowell, and at mile 206.9 (332.9 km).

DRAINAGE AREA.--991 mi² (2,567 km²).

PERIOD OF RECORD.--November 1953 to current year. Prior to October 1971, published as Lookout Point Reservoir near Lowell.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Nov. 7, 1953, to Dec. 4, 1954, approximate elevations obtained from reference marks and Dec. 5, 1954, to Feb. 4, 1955, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents during year, 448,100 acre-ft (553 hm³) July 2, elevation, 927.20 ft (282.611 m); minimum, 117,100 acre-ft (114 hm³) Jan. 12, elevation, 824.20 ft (251.216 m).

Period of record: Maximum contents, 464,900 acre-ft (573 hm³) Dec. 26, 1964, elevation, 931.09 ft (283.796 m); minimum observed since first filling, 91,450 acre-ft (113 hm³) Dec. 1, 1954, elevation, 811.00 ft (247.193 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete gate and spillway section, completed in 1954 by Corps of Engineers. Planned storage began in November 1953. Total capacity is 455,800 acre-ft (562 hm³) at elevation 929 ft (283.2 m), proposed lower limit of operation, and usable capacity is 349,200 acre-ft (431 hm³) between elevations 819 ft (249.6 m), and 929 ft (283.2 m), top of spillway gates. Reservoir used for flood control, improvement of navigation, power generation, pollution abatement, and other purposes. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

820	108,600	860	205,500	900	338,900
830	129,500	870	235,500	910	377,400
840	152,500	880	267,800	920	417,800
850	117,700	890	302,300	930	460,200

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253.100	189.400	213.700	195.000	180.100	228.100	324.600	369.400	404.300	446.100	441.400	417.800
2	254.400	187.700	211.500	187.900	180.500	231.800	327.900	371.300	405.900	446.200	440.400	418.700
3	255.700	185.100	208.100	179.400	179.700	234.300	330.300	374.200	408.000	445.500	439.800	420.000
4	256.100	182.800	203.400	172.000	179.300	237.200	331.800	377.000	411.200	444.600	439.200	421.100
5	256.800	182.600	198.700	163.000	176.100	239.700	332.100	380.500	422.800	443.600	438.400	421.000
6	258.100	184.700	193.900	153.500	171.900	244.700	333.400	385.200	430.000	442.500	437.500	420.600
7	259.600	186.700	204.900	146.000	170.700	246.900	334.000	390.500	429.900	441.200	436.700	419.000
8	260.600	189.400	206.900	136.400	170.800	247.200	334.300	393.400	429.900	439.600	435.900	417.000
9	262.000	197.100	205.200	131.300	174.700	250.000	335.300	395.700	430.300	439.300	435.000	416.000
10	261.000	205.400	202.600	124.300	178.600	252.300	336.500	397.100	431.100	440.600	434.100	416.000
11	260.600	212.900	200.300	118.300	178.000	252.100	339.000	400.400	431.700	441.000	433.300	415.900
12	257.700	224.900	195.700	117.900	180.700	253.800	343.400	404.100	434.100	441.200	432.200	414.500
13	254.700	232.200	192.000	120.100	183.000	255.700	346.100	406.100	435.600	441.500	431.500	412.600
14	250.800	232.600	184.800	126.400	184.200	263.800	347.700	404.800	437.600	441.700	429.500	410.000
15	247.700	235.800	177.300	158.300	186.600	227.000	348.500	405.700	439.300	441.900	427.700	407.500
16	243.700	234.700	171.000	194.200	190.000	287.100	349.500	405.100	440.900	442.500	426.600	403.200
17	239.100	239.700	176.200	214.400	193.500	298.100	349.700	404.300	441.300	442.900	425.200	398.800
18	234.500	236.800	177.200	228.000	199.600	304.800	350.100	404.000	441.700	443.300	424.100	394.600
19	230.200	231.800	171.900	241.400	212.500	310.400	351.600	403.300	440.900	443.800	422.800	390.300
20	226.400	227.400	171.200	243.500	217.400	312.200	354.200	402.700	440.900	444.000	421.600	385.900
21	223.700	223.300	176.700	241.600	220.200	312.800	355.500	402.400	439.800	444.300	420.100	381.600
22	220.400	218.700	177.900	237.600	221.700	312.600	356.700	401.400	440.400	444.400	418.800	377.200
23	217.200	213.600	178.600	232.100	226.200	311.900	357.200	398.800	441.100	444.300	417.300	372.800
24	213.600	209.600	178.400	225.500	230.200	310.600	356.400	396.400	441.400	444.300	416.700	368.000
25	210.000	205.900	183.600	218.700	227.500	309.600	356.200	396.100	441.500	444.300	415.400	362.000
26	206.300	201.800	181.900	211.700	224.200	308.700	358.000	397.000	442.700	443.900	414.000	355.900
27	202.800	197.800	177.100	204.500	225.200	308.000	360.200	398.800	443.400	443.500	413.200	350.300
28	199.400	197.200	182.200	197.600	227.000	308.500	363.300	401.600	443.700	443.200	413.100	345.500
29	196.000	207.800	189.700	192.400	------	309.900	364.900	403.100	444.300	442.700	414.300	340.800
30	192.400	212.900	195.200	186.400	------	314.600	366.800	403.000	445.000	442.500	415.500	336.100
31	189.100	------	197.100	181.700	------	319.200	------	403.600	------	442.200	416.500	------
MAX	262.000	239.700	213.700	243.500	230.200	319.200	366.800	406.100	445.000	446.200	441.400	421.100
MIN	189.100	182.600	171.000	117.900	170.700	227.000	324.600	369.400	404.300	439.300	413.100	336.100
(†)	854.19	862.34	857.06	851.48	867.22	894.68	907.28	916.52	926.47	925.81	919.69	899.26
(‡)	-63,900	+23,800	-15,800	-15,400	+45,300	+92,200	+47,600	+36,800	+41,400	-2,800	-25,700	-80,400

CAL YR 1973 MAX 336.000 MIN 117.500 AC-FT ‡ +76,200
WTR YR 1974 MAX 446.200 MIN 117.900 AC-FT ‡ +83,000

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14150000 MIDDLE FORK WILLAMETTE RIVER NEAR DEXTER, OREG.

LOCATION.--Lat 43°56'45", long 122°50'10", in SE¼NW¼ sec.5, T.19 S., R.1 W., Lane County, on right bank 0.6 mi (1.0 km) upstream from Lost Creek, 2.0 mi (3.2 km) northwest of Dexter, 2.6 mi (4.2 km) downstream from Dexter Dam, and at mile 201.2 (323.7 km).

DRAINAGE AREA.--1,001 mi² (2,593 km²).

PERIOD OF RECORD.--October 1946 to September 1954 (published as "at Lowell"), June 1955 to current year. Monthly discharge only for October 1954 to June 1955, published in WSP 1738.

GAGE.--Water-stage recorder. Datum of gage is 595.30 ft (181.447 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 23, 1950, nonrecording gage and Aug. 23, 1950, to Sept. 30, 1954, at site 4.0 mi (6.4 km) upstream at different datum.

AVERAGE DISCHARGE.--28 years, 3,250 ft³/s (92.0 m³/s), 2,355,000 acre-ft/yr (2.90 km³/yr).

EXTREMES.--Current year: Maximum discharge, 12,400 ft³/s (351 m³/s) Dec. 13, gage height, 6.90 ft (2.103 m); minimum, 782 ft³/s (22.1 m³/s) Jan. 15-17.

Period of record: Maximum discharge, 62,600 ft³/s (1,770 m³/s) Jan. 18, 1953, gage height, 12.46 ft (3.798 m), site and datum then in use, from rating curve extended above 33,000 ft³/s (935 m³/s); minimum daily, 100 ft³/s (2.83 m³/s) Nov. 25, 1960.

Maximum stage, 13.9 ft (4.24 m) Dec. 28, 1945, former site and datum.

REMARKS.--Records excellent. Flow regulated since 1953 by Lookout Point Lake (see station 14149000) and since 1961 by Hills Creek Lake (see station 14145100). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1638: 1948(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	3,840	9,310	10,300	8,580	3,800	6,050	2,230	4,040	2,350	1,630	1,300
2	1,280	3,840	9,360	11,500	6,520	2,270	7,340	3,070	4,030	2,650	1,770	1,300
3	1,320	3,840	9,230	9,880	6,630	1,730	6,980	2,510	4,060	2,990	1,710	1,290
4	1,320	3,800	9,210	8,650	6,840	1,820	6,840	2,460	4,080	2,810	1,530	1,320
5	1,320	3,770	9,180	8,540	6,940	3,400	6,880	2,560	4,090	2,830	1,480	1,740
6	1,310	3,770	8,730	8,440	6,940	3,770	5,600	2,560	5,760	2,800	1,490	1,820
7	1,320	3,790	4,810	8,400	4,430	3,770	5,330	2,450	7,800	2,710	1,490	1,810
8	1,320	3,800	7,840	8,220	3,500	3,130	5,350	3,670	6,090	2,710	1,480	1,780
9	1,320	3,820	8,830	7,020	1,440	1,980	4,510	3,880	4,740	2,350	1,490	1,780
10	1,830	3,800	9,110	7,860	1,340	1,430	3,840	3,900	4,700	1,590	1,520	1,780
11	2,440	3,800	8,980	7,760	3,070	2,640	4,200	2,700	5,280	1,770	1,520	1,760
12	3,360	3,820	10,500	3,360	1,420	3,340	3,960	2,560	5,220	1,830	1,520	2,150
13	3,400	4,590	10,900	3,040	1,150	2,920	3,900	2,560	5,730	1,790	1,530	2,770
14	3,420	7,960	12,000	3,850	1,680	3,530	3,620	3,500	6,370	1,710	2,340	3,320
15	3,440	6,740	12,000	1,540	1,220	4,060	3,840	3,120	6,000	1,680	2,510	3,230
16	3,800	5,600	11,600	782	1,150	4,140	3,530	3,080	5,650	1,580	2,510	3,760
17	3,840	10,000	8,640	2,080	1,150	4,140	3,210	3,470	5,240	1,560	2,420	3,800
18	3,790	10,900	9,560	4,170	1,330	4,200	3,160	2,890	5,190	1,570	2,380	3,820
19	3,760	10,300	11,800	8,880	1,490	4,110	3,020	2,830	5,850	1,570	2,390	3,840
20	3,770	9,460	9,430	11,100	3,560	6,090	2,960	2,920	5,460	1,570	2,410	3,840
21	3,800	9,710	7,280	12,000	3,800	6,100	2,520	2,910	4,460	1,570	2,440	3,840
22	3,820	9,430	9,060	12,000	3,770	6,120	2,670	3,120	3,920	1,520	2,440	3,840
23	3,820	9,330	8,930	12,000	2,360	5,920	3,280	3,520	3,630	1,470	2,420	3,850
24	3,820	9,380	8,830	12,000	1,720	6,210	4,570	3,560	3,690	1,470	1,810	3,840
25	3,820	9,260	8,930	11,900	3,980	6,230	4,840	3,290	3,230	1,470	1,790	3,880
26	3,850	9,210	10,500	11,800	5,780	6,250	2,680	3,150	2,630	1,650	1,800	4,000
27	3,850	9,160	12,000	11,500	4,170	6,180	1,520	3,150	2,460	1,650	1,790	4,000
28	3,850	9,010	10,100	11,200	3,800	6,050	1,550	3,230	2,570	1,580	1,570	3,980
29	3,840	5,830	10,100	8,830	------	6,360	1,910	3,720	2,560	1,530	1,280	3,980
30	3,840	8,140	10,100	6,980	------	6,370	2,230	3,960	2,390	1,510	1,330	3,880
31	3,840	------	9,380	8,660	------	6,010	------	4,060	------	1,500	1,300	------
TOTAL	90,760	199,720	296,230	256,322	99,760	134,270	122,090	96,790	136,920	59,340	57,090	87,300
MEAN	2,928	6,657	9,556	8,268	3,563	4,331	4,070	3,122	4,564	1,914	1,842	2,910
MAX	3,850	10,900	12,000	12,000	8,580	6,370	7,340	4,060	7,800	2,990	2,510	4,000
MIN	1,250	3,770	4,810	782	1,150	1,430	1,520	2,230	2,390	1,470	1,280	1,290
AC-FT	180,000	396,100	587,600	508,400	197,900	266,300	242,200	192,000	271,600	117,700	113,200	173,200

CAL YR 1973 TOTAL 979,903 MEAN 2,685 MAX 12,000 MIN 515 AC-FT 1,944,000
WTR YR 1974 TOTAL 1,636,592 MEAN 4,484 MAX 12,000 MIN 782 AC-FT 3,246,000

14150300 FALL CREEK NEAR LOWELL, OREG.

LOCATION.--Lat 43°58'15", long 122°38'15", in SW¼ sec.25, T.18 S., R.1 E., Lane County, on right bank 0.1 mi (0.2 km) downstream from North Fork, 8.0 mi (12.9 km) northeast of Lowell, and at mile 14.4 (23.2 km).

DRAINAGE AREA.--118 mi^2 (306 km^2).

PERIOD OF RECORD.--August 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 844.42 ft (257.379 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 430 ft^3/s (12.2 m^3/s), 49.49 in/yr (1,257 mm/yr), 311,500 acre-ft/yr (384 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,140 ft^3/s (117 m^3/s) Jan. 15, gage height, 7.03 ft (2.143 m); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 26.

Period of record: Maximum discharge, 12,100 ft^3/s (343 m^3/s) Jan. 21, 1972, which may have been caused by release from breakup of temporary logjam 12 mi (19 km) upstream, gage height, 11.84 ft (3.609 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 3, 4, 1965.

REMARKS.--Records excellent. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	790	1,730	926	1,770	1,070	1,860	352	184	90	42	30
2	48	378	1,260	716	1,370	946	2,060	310	184	90	42	29
3	45	252	1,160	585	995	722	1,610	281	178	84	40	27
4	42	306	1,080	498	1,360	680	1,280	267	360	80	40	27
5	40	920	899	429	1,230	1,590	1,100	281	1,110	82	39	27
6	40	1,440	926	372	912	2,280	1,030	295	873	84	38	26
7	42	984	2,680	336	716	1,250	879	284	637	78	37	26
8	37	2,040	1,940	302	605	866	752	271	484	82	37	26
9	36	2,160	1,220	277	555	674	830	247	389	99	36	28
10	34	1,660	933	267	517	605	866	247	328	84	35	31
11	34	1,260	818	267	475	626	1,310	244	295	105	34	28
12	39	2,230	764	284	433	782	1,570	389	267	80	34	26
13	37	1,710	1,160	692	385	722	1,030	336	241	73	35	25
14	34	1,650	1,100	1,790	475	2,410	782	325	220	68	35	24
15	33	1,750	1,260	3,200	507	3,210	631	410	202	65	34	23
16	31	1,590	1,150	3,010	893	2,170	540	512	187	64	33	23
17	30	1,260	1,890	2,310	926	2,060	484	545	175	67	32	23
18	30	896	1,430	1,780	1,780	1,400	459	503	165	76	33	23
19	30	675	1,020	2,180	2,880	1,040	428	590	155	65	49	23
20	77	842	974	1,500	1,740	842	406	507	145	61	48	22
21	249	1,040	1,330	1,030	1,250	680	372	419	136	57	39	22
22	183	992	1,040	800	995	590	364	364	129	56	35	22
23	115	1,110	1,160	716	806	517	352	321	125	54	33	21
24	163	1,490	1,200	647	722	469	480	295	116	53	32	21
25	210	1,540	1,850	728	794	475	503	281	114	51	32	21
26	135	1,470	1,200	919	848	475	433	281	112	50	31	21
27	101	1,780	1,290	981	776	480	398	261	106	49	30	21
28	177	2,370	2,270	1,220	995	631	372	238	101	48	30	21
29	216	2,870	2,290	1,020	------	776	352	217	97	46	30	21
30	143	2,220	1,890	836	------	1,460	356	196	94	45	30	21
31	585	------	1,280	1,150	------	1,430	------	184	------	43	30	------
TOTAL	3,067	41,675	42,194	31,767	27,710	33,928	23,889	10,253	7,909	2,129	1,105	729
MEAN	98.9	1,389	1,361	1,025	990	1,094	796	331	264	68.7	35.6	24.3
MAX	585	2,870	2,680	3,200	2,880	3,210	2,060	590	1,110	105	49	31
MIN	30	252	764	267	385	469	352	184	94	43	30	21
CFSM	.84	11.8	11.5	8.69	8.39	9.27	6.75	2.81	2.24	.58	.30	.21
IN.	.97	13.14	13.30	10.01	8.74	10.70	7.53	3.23	2.49	.67	.35	.23
AC-FT	6,080	82,660	83,690	63,010	54,960	67,300	47,380	20,340	15,690	4,220	2,190	1,450

CAL YR 1973 TOTAL 148,985 MEAN 408 MAX 2,870 MIN 21 CFSM 3.46 IN 46.97 AC-FT 295,500
WTR YR 1974 TOTAL 226,355 MEAN 620 MAX 3,210 MIN 21 CFSM 5.25 IN 71.36 AC-FT 449,000

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1200	6.61	3,630	2-19	0300	6.50	3,500
1-15	2100	7.03	4,140	3-14	2400	6.97	4,070

14150800 WINBERRY CREEK NEAR LOWELL, OREG.

LOCATION.--Lat 43°54'50", long 122°41'15", in NE¼SE¼ sec.16, T.19 S., R.1 E., Lane County, on right bank 0.9 mi (1.4 km) upstream from Nelson Creek, 4.6 mi (7.4 km) east of Lowell, and at mile 4.4 (7.1 km).

DRAINAGE AREA.--43.9 mi² (113.7 km²).

PERIOD OF RECORD.--August 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 863.70 ft (263.256 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--11 years, 124 ft³/s (3.51 m³/s), 38.36 in/yr (974 mm/yr), 89,840 acre-ft/yr (111 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 15, gage height, 5.35 ft (1.631 m); minimum, 3.4 ft³/s (0.096 m³/s) Sept. 25.
Period of record: Maximum discharge, 4,500 ft³/s (127 m³/s) Dec. 22, 1964, gage height, 8.07 ft (2.460 m); minimum, 1.5 ft³/s (0.042 m³/s) Sept. 4, 5, 8-10, 1967.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	173	515	264	306	299	480	118	71	23	7.9	5.2
2	9.4	104	338	200	267	245	520	106	74	23	7.6	5.0
3	9.0	74	260	158	218	188	418	96	74	22	7.6	4.8
4	8.6	86	221	130	306	185	330	94	116	20	7.6	4.8
5	8.2	346	190	108	299	320	278	102	362	20	7.0	4.8
6	8.6	525	198	90	221	560	248	112	354	21	7.0	4.8
7	8.6	306	535	86	175	313	203	114	264	20	6.7	4.6
8	8.2	650	465	80	144	212	178	112	195	21	6.7	4.4
9	8.2	655	313	69	134	163	206	102	158	27	6.7	4.8
10	7.9	455	245	68	126	142	236	92	134	23	6.7	5.4
11	7.6	354	215	70	118	142	465	87	120	29	6.5	5.0
12	9.4	675	203	74	110	178	550	128	108	22	6.2	4.6
13	9.4	530	338	126	98	170	323	110	94	18	6.2	4.4
14	7.9	455	302	416	102	685	233	100	86	16	6.2	4.4
15	7.6	490	288	1,510	106	918	188	108	80	15	5.9	4.2
16	7.3	442	278	1,040	158	575	153	122	72	14	5.7	4.2
17	7.0	374	434	620	158	590	136	134	65	14	5.7	3.8
18	7.0	292	374	490	434	398	132	136	57	14	5.9	3.8
19	7.0	224	278	560	690	285	122	148	53	14	8.6	3.8
20	19	245	245	398	442	224	118	153	49	13	8.6	4.0
21	66	309	271	271	309	183	108	138	45	12	7.0	4.0
22	51	342	224	209	242	155	108	126	42	11	6.2	4.0
23	32	366	221	183	200	136	104	112	40	11	5.9	4.0
24	34	490	264	163	188	124	122	102	37	11	5.7	3.8
25	38	500	490	168	203	126	142	100	35	11	5.7	3.8
26	30	525	338	206	230	130	128	106	33	9.8	5.4	3.6
27	23	515	302	260	230	132	122	104	31	9.4	5.2	3.6
28	62	720	525	309	278	160	116	94	29	9.4	5.0	3.8
29	81	960	640	239	-------	173	112	84	27	9.0	5.2	4.0
30	51	695	560	193	-------	378	118	74	24	9.0	5.2	4.0
31	83	-------	382	212	-------	410	-------	71	-------	8.2	5.2	-------
TOTAL	727.9	12,877	10,452	8,970	6,492	8,899	6,697	3,385	2,929	499.8	198.7	129.4
MEAN	23.5	429	337	289	232	287	223	109	97.6	16.1	6.41	4.31
MAX	83	960	640	1,510	690	918	550	153	362	29	8.6	5.4
MIN	7.0	74	190	68	98	124	104	71	24	8.2	5.0	3.6
CFSM	.54	9.77	7.68	6.58	5.28	6.54	5.08	2.48	2.22	.37	.15	.10
IN.	.62	10.91	8.86	7.60	5.50	7.54	5.67	2.87	2.48	.42	.17	.11
AC-FT	1,440	25,540	20,730	17,790	12,880	17,650	13,280	6,710	5,810	991	394	257

CAL YR 1973 TOTAL 42,304.1 MEAN 116 MAX 960 MIN 3.1 CFSM 2.64 IN 35.85 AC-FT 83,910
WTR YR 1974 TOTAL 62,256.8 MEAN 171 MAX 1,510 MIN 3.6 CFSM 3.90 IN 52.76 AC-FT 123,500

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-29	0430	4.05	1,080	3-14	2300	4.23	1,190
1-15	1330	5.35	2,000				

14150900 FALL CREEK LAKE NEAR LOWELL, OREG.

LOCATION.--Lat 43°56'40", long 122°45'20", in SW¼ sec.1, T.19 S., R.1 W., Lane County, in regulating tower near the center of Fall Creek Dam on Fall Creek, 2.2 mi (3.5 km) northeast of Lowell, and at mile 7.2 (11.6 km).

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--January 1966 to current year. Prior to October 1971, published as Fall Creek Reservoir near Lowell.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 122,300 acre-ft (151 hm³) July 9, elevation, 832.48 ft (253.740 m); minimum, 93 acre-ft (115,000 m³) Jan. 2, elevation, 680.00 ft (207.264 m).
Period of record: Maximum contents, 123,200 acre-ft (152 hm³) May 30, 31, 1972; maximum elevation, 832.98 ft (253.892 m) May 31, 1972; minimum, no contents Nov. 7 to Dec. 6, 1969, Nov. 14-16, 1970, Nov. 18-25, 1972.

REMARKS.--Reservoir is formed by earthfill dam with concrete gate and spillway section, completed in 1965 by Corps of Engineers; storage began January 1966. Total capacity is 125,100 acre-ft (154 hm³) at elevation 834 ft (254.2 m) and usable capacity is 115,500 acre-ft (142 hm³) between elevation 728 ft (221.9 m) and 834 ft (254.2 m). Reservoir used for flood control, conservation, and recreation. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

670.4	0	725	8,340	785	53,120
679	59	735	13,270	795	64,590
685	366	745	19,480	805	77,880
695	1,400	755	26,130	815	97,750
705	2,850	765	33,770	825	109,200
715	5,200	775	42,580	833	123,200

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89,640	13,690	29,780	170	22,640	55,200	81,890	103,900	116,800	121,600	121,300	105,300
2	86,980	11,760	26,110	93	23,100	54,810	83,130	104,400	117,000	121,600	121,000	104,400
3	84,190	9,660	21,620	1,240	21,840	55,100	83,410	104,800	117,200	121,700	120,900	103,600
4	81,510	8,960	16,920	2,350	21,670	56,040	83,070	107,000	117,700	121,700	120,700	102,600
5	78,880	11,410	13,330	3,190	22,300	58,310	82,780	105,900	118,000	121,900	120,300	102,100
6	76,070	12,410	11,530	3,930	22,770	61,580	83,160	106,600	117,700	121,900	119,900	101,800
7	73,370	10,580	17,160	4,240	23,360	63,050	83,730	107,200	117,500	122,100	119,300	101,600
8	70,570	12,160	20,780	4,210	24,570	65,370	84,970	107,800	117,300	122,200	118,700	101,300
9	67,870	15,930	18,420	4,140	26,000	65,440	86,920	108,500	117,700	122,200	118,200	101,000
10	65,240	17,440	13,410	4,190	27,320	63,960	88,980	109,100	118,200	121,900	117,500	100,700
11	62,660	20,130	8,110	4,240	28,530	63,720	92,030	109,600	118,600	121,700	117,000	100,400
12	60,130	25,640	4,760	4,260	29,610	64,160	93,510	110,500	118,900	121,600	116,500	100,100
13	57,580	29,570	4,670	4,730	30,600	64,280	93,520	111,400	119,300	121,500	115,900	99,850
14	55,370	33,160	4,820	6,710	31,760	68,700	94,010	112,100	119,600	121,400	115,400	99,620
15	52,420	37,020	5,120	17,730	33,000	73,360	94,400	113,100	119,800	121,500	114,900	98,140
16	49,680	39,630	5,180	27,500	35,220	73,340	94,800	114,200	120,000	121,500	114,300	95,610
17	46,790	38,830	8,030	33,410	37,520	73,490	95,470	115,200	120,200	121,500	113,700	93,110
18	44,000	35,440	8,360	35,810	41,810	73,300	96,160	115,500	120,300	121,500	113,200	90,650
19	41,300	32,420	7,800	38,840	47,290	73,620	96,880	115,400	120,400	121,500	112,800	88,110
20	38,860	30,290	7,960	39,620	47,670	74,030	97,640	115,100	120,400	121,500	112,300	85,570
21	36,870	28,460	9,800	37,540	46,920	74,180	98,170	115,100	120,500	121,500	111,700	83,010
22	34,640	26,800	9,280	32,320	47,770	74,520	98,790	115,500	120,700	121,400	111,200	80,270
23	32,220	25,430	8,660	28,990	48,880	74,810	99,380	115,900	120,700	121,400	110,700	77,880
24	29,860	25,220	8,260	26,800	49,730	75,290	99,390	116,400	120,900	121,400	110,400	75,320
25	27,640	23,520	9,880	25,230	50,720	75,960	99,280	116,300	121,000	121,400	110,000	72,750
26	25,240	20,200	7,140	24,750	52,020	76,530	99,930	116,000	121,100	121,400	109,700	70,210
27	22,800	15,970	2,630	24,610	53,110	77,040	100,900	115,700	121,100	121,500	109,300	67,550
28	21,870	16,260	1,380	24,680	54,520	77,120	101,800	115,900	121,300	121,500	108,700	64,870
29	18,380	24,420	1,270	23,890	------	76,240	102,600	116,100	121,400	121,500	107,700	62,260
30	15,950	29,090	490	22,580	------	77,600	103,200	116,400	121,500	121,600	107,000	59,620
31	14,210	------	276	21,480	------	79,400	------	116,700	------	121,500	106,100	------
MAX	89,640	39,630	29,780	39,620	54,520	79,400	103,200	116,700	121,500	122,200	121,300	105,300
MIN	14,210	8,960	276	93	21,670	54,810	81,890	103,900	116,800	121,400	106,100	59,620
(†)	736.62	759.05	683.62	748.09	786.27	806.07	821.45	829.33	832.05	832.08	823.20	790.82
(‡)	-77,900	+14,880	-28,810	+21,200	+33,040	+24,880	+23,800	+13,500	+4,800	0	-15,400	-46,480

WTR YR 1974 MAX 122,200 MIN 93 AC-FT‡ -32,490

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14151000 FALL CREEK BELOW WINBERRY CREEK, NEAR FALL CREEK, OREG.

LOCATION.--Lat 43°56'40", long 122°46'25", in NW¼SE¼ sec.2, T.19 S., R.1 W., Lake County, on left bank 10 ft (3 m) upstream from highway bridge, 1.1 mi (1.8 km) downstream from Fall Creek Dam, 2.3 mi (3.7 km) southeast of town of Fall Creek, and at mile 6.1 (9.8 km).

DRAINAGE AREA.--186 mi^2 (482 km^2).

PERIOD OF RECORD.--October to December 1911 (published as Big Fall Creek near Fall Creek; gage heights and discharge measurements only), September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.81 ft (194.404 m) above mean sea level (Corps of Engineers bench mark). Oct. 1 to Dec. 31, 1911, nonrecording gage at site 0.25 mi (0.40 km) downstream at different datum. Sept. 9, 1935, to Aug. 3, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years, 590 ft^3/s (16.7 m^3/s), 43.08 in/yr (1,094 mm/yr), 427,500 acre-ft/yr (527 hm^3/yr), adjusted for storage since January 1965.

EXTREMES.--Current year: Maximum discharge, 4,500 ft^3/s (127 m^3/s) Nov. 26, gage height, 8.00 ft (2.438 m); minimum, 28 ft^3/s (0.79 m^3/s) June 28, July 26.

Period of record: Maximum discharge, 24,700 ft^3/s (700 m^3/s) Dec. 11, 1956, gage height, 18.80 ft (5.370 m), from rating curve extended above 9,700 ft^3/s (275 m^3/s); minimum, 1.5 ft^3/s (0.042 m^3/s) Oct. 7, 8, 1965.

REMARKS.--Records excellent. Flow regulated since 1966 by Fall Creek Lake (see station 14150900). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1094: 1946(M). WSP 1248: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,310	1,420	2,300	1,370	1,760	1,260	1,500	198	167	52	152	470
2	1,410	1,400	3,410	1,030	1,600	1,580	2,310	198	167	52	152	465
3	1,410	1,380	3,790	474	2,020	932	2,210	198	167	52	152	465
4	1,410	680	3,760	111	2,020	550	2,010	152	300	52	152	474
5	1,400	615	2,820	116	1,470	926	1,710	120	1,410	52	207	289
6	1,410	1,810	2,000	111	1,060	1,690	1,250	120	1,460	52	279	154
7	1,410	2,370	890	272	750	1,140	896	104	1,020	52	317	154
8	1,410	2,250	908	429	244	113	470	81	745	54	317	154
9	1,410	1,310	2,770	400	63	950	244	81	404	164	317	154
10	1,410	1,660	3,620	321	63	1,550	244	81	244	244	317	154
11	1,400	555	3,690	310	63	1,000	535	81	244	254	317	154
12	1,380	590	3,490	384	63	878	1,640	81	177	177	317	154
13	1,370	605	1,290	640	63	968	1,520	81	152	130	317	154
14	1,360	620	1,490	820	64	1,450	896	81	172	106	317	154
15	1,360	630	1,500	321	66	2,550	760	81	167	77	317	745
16	1,390	1,080	1,520	76	70	3,030	580	81	167	66	317	1,300
17	1,410	2,300	878	565	70	2,870	356	231	167	66	317	1,300
18	1,410	3,080	1,740	1,530	474	2,120	279	570	167	68	317	1,290
19	1,390	2,550	1,740	1,560	1,550	1,360	244	835	167	93	317	1,310
20	1,380	2,360	1,270	1,780	2,400	986	244	830	167	106	317	1,320
21	1,360	2,500	760	2,480	2,120	872	244	620	142	79	317	1,310
22	1,410	2,470	1,640	3,760	1,110	670	244	342	118	68	300	1,310
23	1,410	2,450	1,810	2,680	665	585	244	231	118	63	303	1,290
24	1,410	2,440	1,770	2,020	665	425	590	231	116	68	240	1,290
25	1,410	3,180	2,060	1,780	665	352	878	452	116	56	210	1,280
26	1,410	3,970	3,050	1,510	680	377	384	550	118	36	210	1,290
27	1,400	4,430	3,940	1,510	680	388	87	520	118	32	204	1,360
28	1,400	3,230	3,650	1,710	795	938	85	331	89	30	335	1,390
29	1,410	345	3,200	1,840	------	1,520	157	198	51	31	474	1,380
30	1,410	872	2,980	1,820	------	1,540	198	167	52	31	474	1,360
31	1,410	------	1,930	2,060	------	1,290	------	167	------	83	470	------
TOTAL	43,280	55,152	71,666	35,790	23,313	36,860	23,009	8,094	8,869	2,546	9,069	24,074
MEAN	1,396	1,838	2,312	1,155	833	1,189	767	261	296	82.1	293	802
MAX	1,410	4,430	3,940	3,760	2,400	3,030	2,310	835	1,460	254	474	1,390
MIN	1,310	345	760	76	63	113	85	81	51	30	152	154
AC-FT	85,850	109,400	142,100	70,990	46,240	73,110	45,640	16,050	17,590	5,050	17,990	47,750
MEAN†	129	2,090	1,840	1,500	1,430	1,590	1,170	481	377	82.1	42.1	21.4
CFSM†	.69	11.2	9.89	8.06	7.69	8.55	6.29	2.59	2.02	.44	.23	.11
IN.†	.80	12.53	11.42	9.30	7.99	9.88	7.00	2.98	2.26	.51	.26	.13
AC-FT†	7,950	124,280	113,290	92,190	79,280	97,990	69,440	29,550	22,390	5,050	2,590	1,270

CAL YR 1973 TOTAL 216,383 MEAN 593 MAX 4,430 MIN 30 AC-FT 429,200 MEAN† 580 CFSM† 3.12 IN.† 42.33 AC-FT† 419,830
WTR YR 1974 TOTAL 341,722 MEAN 936 MAX 4,430 MIN 30 AC-FT 677,800 MEAN† 891 CFSM† 4.79 IN.† 65.06 AC-FT† 645,270

† Adjusted for change in contents in Fall Creek Lake.

14152000 MIDDLE FORK WILLAMETTE RIVER AT JASPER, OREG.

LOCATION.--Lat 43°59'55", long 122°54'20", in SW¼SW¼ sec.14, T.18 S., R.2 W., Lane County, on right bank 25 ft (8 m) downstream from highway bridge at Jasper, 0.1 mi (0.2 km) downstream from Hills Creek, and at mile 195.0 (313.8 km).

DRAINAGE AREA.--1,340 mi² (3,471 km²).

PERIOD OF RECORD.--September 1905 to February 1912, July 1913 to March 1917, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 513.45 ft (156.500 m) above mean sea level. September 1905 to February 1912 and July 1913 to March 1917, nonrecording gage at approximately same site at datum about 1.5 ft (0.46 m) higher. Oct. 22, 1952, to Sept. 30, 1953, nonrecording gage at site 25 ft (8 m) upstream at same datum.

AVERAGE DISCHARGE.--31 years (1905-11, 1913-16, 1952-74), 4,151 ft³/s (118 m³/s), 3,007,000 acre-ft/yr (3.71 km³/yr).

EXTREMES.--Current year: Maximum discharge, 19,400 ft³/s (549 m³/s) Dec. 12, gage height, 9.14 ft (2.786 m); minimum, 1,350 ft³/s (38.2 m³/s) July 29.

Period of record: Maximum discharge, 94,000 ft³/s (2,660 m³/s) Nov. 23, 1909, gage height, 17.4 ft (5.30 m), datum then in use, from graph based on gage readings, from rating curve extended above 42,000 ft³/s (1,190 m³/s); minimum, 366 ft³/s (10.4 m³/s) Dec. 5, 1954.

REMARKS.--Records excellent. Flow regulated since 1953 by Lookout Point Lake (see station 14149000), since 1961 by Hills Creek Lake (see station 14145100), and since 1966 by Fall Creek Lake (see station 14150900). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1288: 1907-8, 1910-12, 1914-16, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,580	5,890	14,100	13,000	12,500	6,300	9,640	2,730	4,280	2,560	1,830	1,890
2	2,740	5,600	14,800	14,100	9,340	5,140	11,900	3,500	4,280	2,860	2,060	1,880
3	2,790	5,530	15,000	11,400	9,580	3,780	11,300	3,050	4,300	3,230	2,000	1,870
4	2,790	5,070	14,700	9,370	10,500	3,320	10,200	2,920	4,400	3,060	1,760	1,900
5	2,790	5,380	13,600	9,100	9,820	5,580	9,820	2,950	5,860	3,090	1,730	2,230
6	2,790	7,150	12,000	8,950	8,920	8,000	7,720	2,970	7,480	3,080	1,840	2,190
7	2,790	7,310	8,860	8,980	6,220	6,680	6,870	2,820	9,110	2,980	1,900	2,160
8	2,790	8,030	10,300	8,950	4,740	4,520	6,350	4,020	7,280	2,970	1,900	2,130
9	2,790	7,130	13,300	7,580	2,280	3,840	5,670	4,140	5,510	2,710	1,910	2,130
10	3,340	7,610	14,200	8,260	2,010	3,780	5,030	4,140	5,160	1,920	1,940	2,130
11	3,980	6,030	14,100	8,200	3,700	4,570	5,670	3,100	5,620	2,070	1,940	2,110
12	4,850	7,470	16,100	4,220	2,080	5,030	6,660	2,920	5,550	2,100	1,950	2,470
13	4,900	7,330	15,000	4,590	1,680	4,850	6,320	2,920	5,880	1,980	1,960	3,130
14	4,900	10,500	16,400	6,130	2,200	7,310	5,450	3,660	6,470	1,850	2,890	3,630
15	4,900	10,000	16,000	6,450	1,830	9,670	5,160	3,500	6,130	1,790	3,180	3,940
16	5,270	8,500	15,400	4,980	1,990	9,310	4,700	3,500	5,860	1,670	3,200	5,010
17	5,360	14,200	12,500	5,620	2,160	9,100	4,140	3,900	5,470	1,630	3,090	5,140
18	5,310	16,300	13,200	8,440	3,450	7,780	3,940	3,800	5,390	1,680	3,040	5,150
19	5,270	14,700	15,800	10,700	5,290	6,550	3,740	3,980	5,900	1,720	3,070	5,180
20	5,290	13,400	12,600	15,200	7,470	7,610	3,680	4,060	5,680	1,740	3,090	5,200
21	5,380	14,500	9,610	16,800	7,360	7,390	3,210	3,820	4,780	1,710	3,120	5,190
22	5,450	14,100	12,100	18,300	6,200	7,100	3,320	3,720	4,270	1,630	3,090	5,180
23	5,400	13,900	12,100	17,000	4,300	6,680	3,780	3,900	4,000	1,540	3,080	5,180
24	5,420	14,100	12,200	15,800	3,270	6,810	5,230	3,980	4,020	1,550	2,330	5,160
25	5,450	14,800	13,000	15,400	5,360	6,660	5,960	3,900	3,590	1,540	2,190	5,200
26	5,470	15,900	15,600	14,900	7,260	6,660	3,720	3,860	3,050	1,770	2,210	5,340
27	5,420	16,500	18,500	14,800	6,200	6,630	1,950	3,820	2,810	1,760	2,190	5,390
28	5,470	15,900	16,500	14,600	5,770	7,470	1,930	3,700	2,890	1,670	2,060	5,430
29	5,490	10,800	16,200	12,200	------	8,830	2,280	4,060	2,820	1,580	1,850	5,410
30	5,450	11,800	15,600	11,900	------	10,300	2,740	4,200	2,640	1,560	1,930	5,310
31	5,510	------	13,000	12,000	------	9,130	------	4,320	------	1,580	1,890	------
TOTAL	138,130	315,430	432,370	337,920	153,480	206,380	168,080	111,860	150,480	64,580	72,220	114,260
MEAN	4,456	10,510	13,950	10,900	5,481	6,657	5,603	3,608	5,016	2,083	2,330	3,809
MAX	5,510	16,500	18,500	18,300	12,500	10,300	11,900	4,320	9,110	3,230	3,200	5,430
MIN	2,580	5,070	8,860	4,220	1,680	3,320	1,930	2,730	2,640	1,540	1,730	1,870
CFSM	3.33	7.84	10.4	8.13	4.09	4.97	4.18	2.69	3.74	1.55	1.74	2.84
IN.	3.83	8.76	12.00	9.38	4.26	5.73	4.67	3.11	4.18	1.79	2.00	3.17
AC-FT	274,000	625,700	857,600	670,300	304,400	409,400	333,400	221,900	298,500	128,100	143,200	226,600

CAL YR 1973 TOTAL 1,410,071 MEAN 3,863 MAX 18,500 MIN 772 CFSM 2.88 IN 39.15 AC-FT 2,797,000
WTR YR 1974 TOTAL 2,265,190 MEAN 6,206 MAX 18,500 MIN 1,540 CFSM 4.63 IN 62.88 AC-FT 4,493,000

14152500 COAST FORK WILLAMETTE RIVER AT LONDON, OREG.

LOCATION.--Lat 43°38'30", long 123°05'05", in SW¼ sec.20, T.22 S., R.3 W., Lane County, on left bank 0.6 mi (1.0 km) north of London, 11.0 mi (17.7 km) south of Cottage Grove, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--72.1 mi² (186.7 km²).

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 852.58 ft (259.866 m) above mean sea level (levels by Corps of Engineers). Sept. 18 to Oct. 17, 1935, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--39 years, 207 ft³/s (5.86 m³/s), 38.99 in/yr (990 mm/yr), 150,000 acre-ft/yr (185 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,260 ft³/s (121 m³/s) Jan. 15, gage height, 8.15 ft (2.484 m); minimum, 7.0 ft³/s (0.20 m³/s) Sept. 26.

Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) Dec. 22, 1964, gage height, 13.37 ft (4.075 m), from rating curve extended above 3,200 ft³/s (90.6 m³/s), on basis of slope-area measurement of peak flow; minimum, 7.0 ft³/s (0.20 m³/s) Sept. 26, 1974.

REMARKS.--Records good. No regulation. Diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	215	1,050	461	877	845	1,070	136	64	31	15	13
2	21	111	674	368	633	701	1,040	125	63	32	15	13
3	20	76	529	310	469	513	767	118	62	30	15	12
4	20	191	441	265	542	425	575	112	73	29	15	12
5	19	811	373	231	503	547	485	112	126	38	14	13
6	19	1,110	337	203	412	1,060	427	113	109	33	15	12
7	22	561	1,020	183	342	672	363	110	90	30	14	11
8	20	1,210	786	169	293	491	328	106	79	32	14	11
9	19	997	516	157	258	395	415	100	71	34	14	12
10	19	837	399	145	232	346	390	95	65	30	14	15
11	18	821	351	138	211	343	375	92	61	30	13	13
12	20	1,370	475	178	204	477	362	95	57	28	14	12
13	20	1,100	1,070	695	185	501	315	89	54	26	14	11
14	20	1,250	715	1,160	185	1,090	272	90	52	25	14	10
15	20	1,160	599	3,220	183	1,230	239	110	53	24	14	9.4
16	20	1,000	520	2,250	373	845	216	120	51	24	14	9.5
17	20	775	926	1,610	450	833	198	118	48	25	13	9.4
18	20	559	706	1,180	771	615	188	120	45	26	14	9.3
19	20	402	521	1,030	1,340	474	178	125	43	27	19	9.6
20	35	706	527	777	808	385	171	119	43	24	17	9.3
21	102	860	639	575	639	323	159	111	40	22	15	8.7
22	69	758	546	456	544	279	152	104	40	20	14	8.7
23	53	667	523	383	449	245	149	97	40	20	13	8.5
24	56	822	511	332	396	221	154	91	38	20	13	8.4
25	55	868	687	342	389	211	207	88	38	19	12	8.1
26	45	866	519	349	513	201	176	87	39	19	12	7.8
27	38	847	607	346	552	221	163	84	38	18	11	8.9
28	76	1,190	984	343	814	686	150	80	36	17	11	9.0
29	85	1,780	1,120	310	------	747	142	75	34	17	12	9.2
30	55	1,500	928	275	------	1,080	140	70	32	16	12	9.0
31	99	------	628	445	------	898	------	66	------	16	14	------
TOTAL	1,148	25,420	20,227	18,886	13,567	17,900	9,966	3,158	1,684	774	430	312.8
MEAN	37.0	847	652	609	485	577	332	102	56.1	25.0	13.9	10.4
MAX	102	1,780	1,120	3,220	1,340	1,230	1,070	136	126	34	19	15
MIN	18	76	337	138	183	201	140	66	32	16	11	7.8
CFSM	.51	11.7	9.04	8.45	6.73	8.00	4.60	1.41	.78	.35	.19	.14
IN.	.59	13.12	10.44	9.74	7.00	9.24	5.14	1.63	.87	.40	.22	.16
AC-FT	2,280	50,420	40,120	37,460	26,910	35,500	19,770	6,260	3,340	1,540	853	620

CAL YR 1973 TOTAL 78,322.5 MEAN 215 MAX 1,780 MIN 9.4 CFSM 2.98 IN 40.41 AC-FT 155,400
WTR YR 1974 TOTAL 113,472.8 MEAN 311 MAX 3,220 MIN 7.8 CFSM 4.31 IN 58.55 AC-FT 225,100

PEAK DISCHARGE (BASE, 2,100 CFS).--Jan. 15 (1330) 4,260 cfs (8.15 ft).

14153000 COTTAGE GROVE LAKE NEAR COTTAGE GROVE, OREG.

LOCATION.--Lat 43°43'00", long 123°02'55", in NE¼ sec.28, T.21 S., R.3 W., Lane County, in east abutment of dam on Coast Fork Willamette River 5.8 mi (9.3 km) south of Cottage Grove, and at mile 29.7 (47.8 km).

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--October 1942 to current year. Prior to October 1971, published as Cottage Grove Reservoir near Cottage Grove.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 32,300 acre-ft (39.8 hm³) June 18-24, elevation, 790.45 ft (240.929 m); minimum observed, 116 acre-ft (143,000 m³) Jan. 2, elevation, 728.8 ft (222.14 m).

Period of record: Maximum contents, 36,750 acre-ft (45.3 hm³) Dec. 24, 1964, elevation, 794.23 ft (242.081 m); minimum since first filling, no contents Sept. 26 to Oct. 19, 1966, and Nov. 14, 15, Nov. 20 to Dec. 8, 1969.

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed by Corps of Engineers in 1942; storage began Oct. 31, 1942. Capacity, 32,930 acre-ft (40.6 hm³) between elevation 719.0 ft (219.15 m), outlet conduit, and 791.0 ft (241.10 m), crest of spillway. Dead storage negligible. Reservoir used for flood control and improvement of navigation. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1218: 1950.

Capacity table (elevation, in feet, and total contents, in acre-feet)

710.9	0	755	4,860	780	21,460
730	151	760	7,150	785	26,370
740	926	765	9,970	790	31,780
745	1,840	770	13,260	793	35,270
750	3,140	775	17,070		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,830	1,510	8,510	130	4,900	10,770	18,620	26,960	31,880	32,160	30,870	27,970
2	20,080	1,410	5,890	116	4,900	10,430	18,590	27,170	31,910	32,140	30,800	26,530
3	19,110	1,370	3,530	347	4,220	10,830	18,350	27,350	31,960	32,110	30,730	26,160
4	18,150	1,590	2,740	1,030	4,330	11,050	18,250	27,500	32,050	32,070	30,650	24,650
5	17,200	2,850	2,760	1,500	4,710	11,530	18,420	27,670	32,130	32,060	30,570	25,090
6	16,250	2,880	2,840	1,960	5,030	12,970	18,910	27,810	32,130	32,040	30,490	24,520
7	15,320	1,760	5,140	2,140	5,190	13,680	19,560	27,970	32,040	32,010	30,420	23,940
8	14,400	2,110	5,680	2,200	5,400	14,860	20,330	28,130	31,990	32,010	30,350	23,340
9	13,540	2,480	4,180	2,230	5,710	14,480	21,090	28,270	32,000	31,980	30,270	22,810
10	12,700	2,550	3,420	2,230	6,160	13,310	21,790	28,410	32,060	31,970	30,190	22,170
11	11,820	2,910	3,230	2,280	6,600	12,970	22,200	28,550	32,100	31,930	30,100	21,620
12	10,970	3,480	3,740	2,460	7,000	13,380	22,660	28,720	32,140	31,910	30,020	21,060
13	10,160	4,980	4,520	3,360	7,360	13,490	23,000	28,860	32,160	31,850	29,940	20,500
14	9,310	6,370	3,480	4,910	7,680	14,640	23,290	29,010	32,190	31,820	29,870	19,940
15	8,510	8,090	2,980	12,360	8,010	14,680	23,600	29,250	32,230	31,780	29,800	19,380
16	7,680	9,530	2,890	19,820	8,450	14,020	23,950	29,480	32,250	31,740	29,730	18,440
17	6,850	9,650	4,450	22,310	8,680	14,770	24,280	29,750	32,260	31,700	29,660	17,090
18	6,070	8,840	4,860	20,630	9,970	15,460	24,670	30,010	32,300	31,670	29,590	15,720
19	5,320	7,510	4,010	18,330	10,590	15,770	24,980	30,260	32,300	31,650	29,560	14,420
20	4,630	6,850	3,260	14,640	9,200	15,950	25,270	30,490	32,300	31,590	29,490	13,100
21	4,080	6,390	2,760	10,650	8,960	16,120	25,520	30,680	32,300	31,560	29,430	11,870
22	3,510	5,710	2,400	6,500	9,140	16,340	25,750	30,860	32,300	31,500	29,360	10,650
23	2,970	4,450	2,420	4,860	9,370	16,620	28,090	31,030	32,300	31,440	29,300	9,460
24	2,320	4,330	2,550	4,440	9,550	16,940	28,080	31,160	32,290	31,380	29,230	8,290
25	1,760	4,040	2,830	4,400	9,850	17,270	25,700	31,180	32,270	31,320	29,150	7,820
26	1,300	3,430	694	4,440	10,650	17,640	25,770	31,410	32,270	31,250	29,080	7,730
27	1,160	2,770	300	4,440	10,870	18,100	26,030	31,520	32,260	31,200	29,000	7,630
28	1,280	3,140	347	4,400	10,850	18,500	27,290	31,600	32,250	31,130	28,670	7,520
29	1,320	7,100	386	4,290	-------	17,770	26,510	31,670	32,240	31,070	28,130	7,360
30	1,300	10,220	272	3,770	-------	18,140	26,720	31,750	32,190	31,010	27,730	7,100
31	1,490	-------	172	4,260	-------	18,240	-------	31,830	-------	30,940	27,330	-------
MAX	20,830	10,220	8,510	22,310	10,870	18,500	28,090	31,830	32,300	32,160	30,870	27,970
MIN	1,160	1,370	172	116	4,220	10,430	18,250	26,960	31,880	30,940	27,330	7,100
(†)	743.3	765.4	730.6	753.4	766.41	776.39	785.34	790.04	790.36	789.25	785.92	759.9
(‡)	-19,810	+8,730	-10,050	+4,090	+6,590	+7,390	+8,480	+5,110	+360	-1,250	-3,610	-20,230

WTR YR 1974 MAX 32,300 MIN 116 AC-FT‡ -14,200

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14153500 COAST FORK WILLAMETTE RIVER BELOW COTTAGE GROVE DAM, OREG.

LOCATION.--Lat 43°43'15", long 123°02'55", in NE¼ sec.28, T.21 S., R.3 W., Lane County, on right bank at bridge 0.3 mi (0.5 km) downstream from Cottage Grove Dam, 5.5 mi (8.8 km) south of Cottage Grove, and at mile 29.4 (47.3 km).

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--January 1939 to current year. Prior to October 1944, published as "near Cottage Grove."

GAGE.--Water-stage recorder. Datum of gage is 711.00 ft (216.713 m) above mean sea level (Corps of Engineers bench mark). Jan. 1 to Oct. 12, 1939, nonrecording gage and Oct. 13, 1939, to Sept. 30, 1944, water-stage recorder at several sites and datums 0.8 mi (1.3 km) downstream.

AVERAGE DISCHARGE.--35 years, 284 ft³/s (8.04 m³/s), 37.08 in/yr (942 mm/yr), 205,800 acre-ft/yr (254 hm³/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,120 ft³/s (88.4 m³/s) Jan. 22, gage height, 8.97 ft (2.734 m); minimum, 38 ft³/s (1.08 m³/s) Oct. 27, June 9.

Period of record: Maximum discharge, 5,910 ft³/s (167 m³/s) Dec. 24, 1964, gage height, 11.83 ft (3.606 m); practically no flow July 5-7, 1945, Aug. 24, 1947.

REMARKS.--Records excellent. Flow regulated since 1942 by Cottage Grove Lake (see station 14153000), evaporation from reservoir at times exceeds natural flow. Small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1448: 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	185	2,240	677	722	1,250	1,270	66	54	43	43	205
2	388	183	2,240	544	920	1,110	1,500	67	60	43	43	205
3	504	104	1,870	250	1,040	528	1,220	67	60	43	43	205
4	500	160	1,020	108	690	536	885	67	60	43	43	253
5	492	395	516	104	516	552	623	67	116	43	43	297
6	488	1,210	444	96	444	771	374	60	142	43	43	293
7	484	1,420	193	163	402	592	198	54	142	43	43	290
8	476	1,140	740	210	325	118	124	54	188	43	43	290
9	472	1,120	1,450	200	213	771	218	54	60	43	43	290
10	464	1,030	950	200	118	1,110	318	54	43	43	44	286
11	456	1,030	588	173	91	636	314	47	43	43	43	283
12	452	1,100	488	168	93	480	265	43	43	43	43	283
13	444	1,150	1,100	419	93	659	250	43	43	43	43	279
14	437	940	1,540	930	128	960	223	43	43	43	43	279
15	430	722	1,090	419	145	1,640	168	43	43	43	43	276
16	423	520	776	64	307	1,410	130	43	43	43	43	456
17	416	1,010	456	1,310	496	722	100	43	43	43	43	668
18	405	1,260	758	2,490	556	504	89	43	43	43	43	654
19	398	1,270	1,160	2,490	1,300	508	89	43	43	43	43	645
20	388	1,310	1,120	2,760	1,740	456	89	43	43	43	43	636
21	381	1,480	1,080	2,930	1,050	374	89	43	43	43	42	623
22	370	1,450	910	2,560	735	286	89	43	43	43	42	609
23	360	1,410	686	1,380	572	205	91	43	43	43	43	596
24	346	1,380	636	663	500	153	262	43	43	43	42	584
25	328	1,360	744	488	437	140	430	43	43	43	42	230
26	269	1,480	1,590	488	398	114	208	43	43	43	42	54
27	96	1,470	1,120	488	771	110	96	43	43	43	42	54
28	47	890	1,220	488	1,200	758	96	43	43	43	168	52
29	70	256	1,390	484	------	1,370	77	43	43	43	262	52
30	70	1,060	1,320	480	------	1,350	66	43	43	43	208	183
31	49	------	910	605	------	1,160	------	43	------	43	208	------
TOTAL	11,118	29,495	32,345	24,829	16,002	21,333	9,951	1,517	1,705	1,333	2,002	10,110
MEAN	359	983	1,043	801	572	688	332	48.9	56.8	43.0	64.6	337
MAX	504	1,480	2,240	2,930	1,740	1,640	1,500	67	142	43	262	668
MIN	47	104	193	64	91	110	66	43	43	43	42	52
AC-FT	22,050	58,500	64,160	49,250	31,740	42,310	19,740	3,010	3,380	2,640	3,970	20,050
MEAN†	36.4	1,132	880	867	690	808	474	132	62.9	22.6	5.85	-
CFSM†	.350	10.88	8.46	8.34	6.63	7.77	4.56	1.27	.605	.217	.056	-
IN.†	.40	12.15	9.76	9.62	6.91	8.96	5.09	1.46	.67	.25	.06	-
AC-FT†	2,240	67,373	54,110	53,340	38,330	49,700	28,220	8,120	3,740	1,390	360	-

CAL YR 1973 TOTAL 103,973 MEAN 285 MAX 2,240 MIN 47 AC-FT 206,200 MEAN† 281 CFSM† 2.70 IN.† 36.70 AC-FT† 203,500
WTR YR 1974 TOTAL 161,740 MEAN 443 MAX 2,930 MIN 42 AC-FT 320,800 MEAN† 423 CFSM† 4.07 IN.† 55.29 AC-FT† 306,600

† Adjusted for change in contents in Cottage Grove Lake.

14154500 ROW RIVER ABOVE PITCHER CREEK, NEAR DORENA, OREG.

LOCATION.--Lat 43°44'10", long 122°52'20", in NE¼ sec.24, T.21 S., R.2 W., Lane County, on right bank 0.5 mi (0.8 km) upstream from Pitcher Creek, 1.2 mi (1.9 km) northwest of Dorena, and at mile 13.2 (21.2 km).

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--September 1935 to current year. Prior to October 1949, published as "at Star."

GAGE.--Water-stage recorder. Datum of gage is 856.16 ft (260.958 m) above mean sea level. Sept. 16, 1935, to Oct. 17, 1938, nonrecording gage at site 450 ft (137 m) upstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--39 years, 609 ft³/s (17.2 m³/s), 39.20 in/yr (996 mm/yr), 441,200 acre-ft/yr (544 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,800 ft³/s (476 m³/s) Jan. 15, gage height, 12.75 ft (3.886 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 25-27.

Period of record: Maximum discharge, 33,100 ft³/s (937 m³/s) Dec. 22, 1964, gage height, 18.19 ft (5.544 m), from rating curve extended above 12,000 ft³/s (340 m³/s), on basis of slope-area measurement of peak flow; minimum, 10 ft³/s (0.28 m³/s) Sept. 24, 25, 1951, Oct. 7, 8, 1958.

REMARKS.--Records good. Slight regulation caused by upstream logponds. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	1,120	3,310	1,300	2,620	1,780	3,140	695	336	109	36	24
2	39	474	1,990	994	1,780	1,570	2,870	565	400	101	36	23
3	36	304	1,550	808	1,250	1,120	2,090	488	400	91	34	22
4	35	412	1,350	664	1,460	948	1,580	468	448	86	33	20
5	33	1,990	1,100	550	1,390	1,330	1,420	565	1,040	86	33	20
6	33	2,830	1,240	460	1,070	2,630	1,420	675	960	91	34	20
7	39	1,640	5,040	420	870	1,560	1,120	660	710	84	31	19
8	39	4,860	3,230	400	750	1,090	972	615	535	86	30	18
9	35	4,570	1,910	340	744	876	1,050	530	456	95	30	19
10	32	3,650	1,490	320	738	792	1,090	432	432	84	31	24
11	31	3,100	1,370	300	700	882	1,690	380	456	99	29	23
12	33	4,370	1,360	387	640	1,370	2,180	476	452	84	28	22
13	35	3,160	2,370	2,360	555	1,310	1,430	444	416	75	29	19
14	32	3,000	1,900	4,050	535	4,570	1,070	384	384	70	30	18
15	30	3,560	1,920	13,300	535	5,650	912	500	332	67	30	16
16	28	4,070	2,010	9,380	1,070	3,750	768	550	281	81	29	16
17	27	2,610	3,680	4,940	1,100	3,670	700	595	275	67	29	15
18	27	1,670	2,400	3,560	2,160	2,280	762	600	263	67	28	15
19	30	1,140	1,590	3,640	4,560	1,610	720	655	239	65	34	15
20	104	1,370	1,650	2,320	2,360	1,280	650	645	203	60	40	15
21	610	1,570	2,500	1,520	1,620	1,060	605	585	175	57	34	14
22	419	1,400	1,650	1,120	1,280	942	625	530	170	54	31	13
23	233	1,310	1,410	942	1,030	822	590	496	158	50	28	13
24	260	1,990	1,350	828	918	732	625	472	143	49	26	13
25	253	2,130	2,730	858	1,010	774	690	508	135	47	26	12
26	185	2,080	1,680	1,000	1,140	864	640	580	129	46	25	12
27	138	2,400	1,680	1,030	1,100	894	595	550	119	46	23	12
28	220	4,230	3,230	1,190	1,540	1,670	565	472	115	44	22	12
29	352	5,520	4,190	1,030	------	2,160	565	396	111	43	22	13
30	220	4,540	3,140	882	------	3,320	675	329	113	41	23	13
31	370	------	1,900	1,450	------	2,670	------	304	------	38	24	------
TOTAL	4,000	77,070	67,920	62,343	36,525	55,976	33,809	16,144	10,386	2,163	918	510
MEAN	129	2,569	2,191	2,011	1,304	1,806	1,127	521	346	69.8	29.6	17.0
MAX	610	5,520	5,040	13,300	4,560	5,650	3,140	695	1,040	109	40	24
MIN	27	304	1,100	300	535	732	565	304	111	38	22	12
CFSM	.61	12.2	10.4	9.53	6.18	8.56	5.34	2.47	1.64	.33	.14	.08
IN.	.71	13.59	11.97	10.99	6.44	9.87	5.96	2.85	1.83	.38	.16	.09
AC-FT	7,930	152,900	134,700	123,700	72,450	111,000	67,060	32,020	20,600	4,290	1,820	1,010

CAL YR 1973 TOTAL 239,584 MEAN 656 MAX 5,520 MIN 13 CFSM 3.11 IN 42.24 AC-FT 475,200
WTR YR 1974 TOTAL 367,764 MEAN 1,008 MAX 13,300 MIN 12 CFSM 4.78 IN 64.84 AC-FT 729,500

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1130	9.58	7,950	3-14	1900	9.63	8,080
1-15	1700	12.75	16,800				

14155000 DORENA LAKE NEAR COTTAGE GROVE, OREG.

LOCATION.--Lat 43°47'10", long 122°57'15", in SE¼ sec.32, T.20 S., R.2 W., Lane County, on left end of Dorena Dam on Row River, 5.0 mi (8.0 km) east of Cottage Grove, and at mile 7.61 (12.24 km).

DRAINAGE AREA.--265 mi² (686 km²).

PERIOD OF RECORD.--October 1949 to current year. Prior to October 1971, published as Dorena Reservoir near Cottage Grove.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 74,100 acre-ft (91.4 hm³) June 19, elevation, 833.12 ft (253.935 m); minimum, 237 acre-ft (292,000 m³) Jan. 7-10, elevation, 745.00 ft (227.076 m).
Period of record: Maximum contents, 95,550 acre-ft (118 hm³) Dec. 23, 1964, elevation, 844.03 ft (257.260 m); minimum observed since first filling, 159 acre-ft (196,000 m³) Dec. 14, 1970, elevation, 743.60 ft (226.649 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete outlet and spillway, completed in 1949 by Corps of Engineers; controlled storage began Oct. 11, 1949. Capacity, 77,580 acre-ft (95.7 hm³) between elevations 739.0 ft (225.25 m), sill of outlet gates, and 835.0 ft (254.51 m), crest of spillway. Dead storage, 18 acre-ft (22,200 m³) below elevation 739.0 ft (225.25 m). Reservoir used for flood control and improvement of navigation. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

745	237	765	4,560	785	15,850	805	33,700	825	60,060
750	712	770	6,840	790	19,580	810	39,380	830	68,470
755	1,550	775	9,540	795	23,780	815	45,620	835	77,600
760	2,810	780	12,530	800	28,490	820	52,480	840	87,320
								845	97,580

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38,440	9,820	30,580	8,260	14,340	24,920	47,030	63,840	72,090	72,870	67,590	54,960
2	38,070	8,120	26,790	6,790	20,470	23,870	47,160	63,490	72,400	72,670	67,240	54,370
3	37,490	7,070	25,080	6,190	10,580	24,260	46,780	63,670	72,600	72,490	66,770	53,970
4	36,590	7,450	18,040	4,660	11,120	24,230	45,850	64,210	72,980	72,290	66,170	53,480
5	35,530	11,060	12,720	2,410	12,150	26,290	45,020	64,890	73,570	72,090	65,810	53,070
6	34,390	11,400	8,700	940	12,900	29,900	45,420	65,470	73,400	71,870	65,450	52,710
7	33,260	12,920	17,680	237	13,290	31,820	46,110	65,830	73,330	71,670	65,060	52,290
8	32,140	18,830	21,940	237	13,610	34,460	46,530	66,290	73,330	71,600	64,650	51,930
9	31,020	20,750	19,290	237	14,270	33,260	47,980	66,770	73,400	71,550	64,300	51,620
10	29,890	20,180	14,650	237	15,220	29,430	49,100	67,280	73,510	71,530	63,890	51,290
11	28,810	18,510	9,830	895	16,280	28,460	51,340	67,720	73,700	71,510	63,520	50,880
12	27,750	22,160	6,940	2,810	16,920	28,770	52,880	68,350	73,810	71,510	63,120	50,520
13	26,590	22,870	7,040	4,560	17,220	29,040	53,340	68,930	73,730	71,460	63,070	50,140
14	25,520	21,350	7,670	15,580	17,520	37,000	53,920	69,400	73,730	71,390	62,360	49,750
15	24,460	25,320	8,050	43,580	17,890	43,010	54,640	70,160	73,660	71,310	62,000	49,380
16	23,410	32,480	8,760	65,980	18,650	42,360	55,350	71,020	73,700	71,200	61,630	48,660
17	22,360	32,010	14,070	73,720	19,110	41,060	56,000	71,600	73,880	71,170	61,220	47,610
18	21,340	27,480	16,060	72,890	23,430	38,450	56,680	71,840	74,060	71,100	60,900	46,580
19	20,360	22,930	11,780	71,670	27,700	37,610	57,360	72,000	74,060	71,020	60,560	45,540
20	19,520	20,580	9,200	67,240	25,700	37,960	57,960	72,040	73,970	70,930	60,220	44,540
21	19,660	19,160	8,870	61,320	23,430	37,860	58,540	71,930	73,900	70,830	59,850	43,520
22	19,470	17,430	8,650	54,300	22,210	38,000	59,200	71,690	73,900	70,720	59,490	42,520
23	18,620	15,690	8,870	46,430	22,210	38,200	59,870	71,380	73,840	70,610	59,120	41,520
24	17,720	15,440	9,770	39,260	22,380	38,440	59,950	71,190	73,750	70,380	58,750	40,530
25	16,590	15,450	11,120	32,190	22,820	38,740	59,630	71,190	73,700	70,040	58,390	39,560
26	15,230	12,340	10,180	24,960	23,690	39,300	60,220	71,130	73,570	69,720	58,030	38,590
27	13,790	9,020	9,430	24,140	24,500	40,040	61,270	71,990	73,480	69,360	57,640	37,580
28	12,610	11,810	11,780	24,500	25,050	40,930	62,220	70,950	73,330	69,000	57,270	36,630
29	11,670	24,430	15,500	21,960	------	41,530	62,890	71,200	73,200	68,680	56,810	35,660
30	10,510	31,420	16,130	18,340	------	44,820	63,620	71,490	73,040	68,460	56,180	34,730
31	9,540	------	12,970	15,780	------	45,800	------	71,750	------	67,940	55,580	------
MAX	38,440	32,480	30,580	73,720	27,700	45,800	63,620	72,040	74,060	72,870	67,590	54,960
MIN	9,540	7,070	6,940	237	10,580	23,870	45,020	63,490	72,090	67,940	55,580	34,730
(†)	775.00	802.87	780.7	784.9	796.40	815.14	827.18	831.83	832.54	829.70	822.11	805.94
(‡)	-29,220	+21,880	-18,450	+2,810	+9,270	+20,750	+17,820	+8,130	+1,290	-5,100	-12,360	-20,850

WTR YR 1974 MAX 74,060 MIN 237 AC-FT‡ -4,030

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14155500 ROW RIVER NEAR COTTAGE GROVE, OREG.

LOCATION.--Lat 43°47'35", long 122°59'25", in NE¼ sec.36, T.20 S., R.3 W., Lane County, on right bank 1.7 mi (2.7 km) upstream from Mosby Creek, 2.1 mi (3.4 km) downsteam from Dorena Dam, 3.5 mi (5.6 km) east of Cottage Grove, and at mile 5.5 (8.8 km).

DRAINAGE AREA.--270 mi² (699 km²).

PERIOD OF RECORD.--January 1939 to current year. Prior to October 1947, published as "near Dorena."

GAGE.--Water-stage recorder. Datum of gage is 685.24 ft (208.861 m) above mean sea level (levels by Corps of Engineers). Jan. 5 to Oct. 12, 1939, nonrecording gage at site 180 ft (55 m) upstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 768 ft³/s (21.7 m³/s), 38.63 in/yr (981 mm/yr), 556,400 acre-ft/yr (686 hm³/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,120 ft³/s (145 m³/s) Jan. 23, 26, gage height, 8.09 ft (2.466 m); minimum, 103 ft³/s (2.92 m³/s) July 22, 23.

Period of record: Maximum discharge, 21,400 ft³/s (606 m³/s) Dec. 28, 1945, gage height, 18.20 ft (5.547 m); minimum, 0.20 ft³/s (0.006 m³/s) Sept. 25 to Oct. 7, 1958.

REMARKS.--Records excellent. Flow regulation since October 1949 by Dorena Lake (see station 14155000). No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	1,050	4,480	3,890	3,480	2,340	3,250	659	203	203	211	329
2	211	1,300	4,370	1,920	3,480	2,530	3,510	820	267	199	211	324
3	324	802	4,180	1,180	2,420	1,710	2,880	485	320	199	211	324
4	485	333	3,950	1,380	1,640	832	2,480	267	324	199	211	271
5	577	724	4,150	1,490	1,310	778	2,230	293	886	199	211	207
6	610	2,310	3,500	1,020	1,050	1,580	1,550	455	1,140	199	215	207
7	604	2,200	1,250	538	922	1,170	1,060	522	826	199	211	207
8	599	2,530	1,460	500	808	199	886	420	566	171	211	207
9	593	4,420	3,600	475	582	1,650	850	356	475	125	211	207
10	588	4,610	4,200	340	378	2,920	910	267	410	114	211	207
11	582	4,510	4,080	247	324	1,670	1,050	211	387	106	211	207
12	577	3,640	3,280	187	435	1,000	1,690	211	440	106	211	207
13	571	3,450	2,600	187	505	1,480	1,500	211	475	106	211	203
14	566	4,440	2,070	1,140	505	2,140	1,020	211	401	106	211	203
15	560	2,310	2,080	898	505	3,670	712	211	401	106	207	203
16	555	976	2,100	267	814	4,840	576	211	289	108	207	356
17	549	3,210	1,130	2,200	1,160	5,040	510	405	219	106	207	527
18	544	4,370	2,010	4,840	1,260	4,150	538	577	219	106	207	527
19	533	3,730	4,310	5,070	2,540	2,360	522	670	263	106	207	522
20	527	2,940	3,650	5,040	4,000	1,470	470	718	280	106	207	516
21	527	2,890	2,490	5,010	3,370	1,330	410	718	243	106	207	516
22	527	2,820	2,120	4,970	2,310	1,050	392	718	203	106	207	511
23	637	2,740	1,590	5,010	1,430	880	383	718	203	106	207	511
24	730	2,710	1,600	4,990	1,070	748	718	615	203	155	207	505
25	838	3,130	1,920	4,940	1,070	718	1,040	549	203	215	203	505
26	904	4,070	2,620	4,950	1,090	688	533	637	203	215	203	500
27	886	4,690	2,560	1,740	1,170	648	227	654	203	215	203	500
28	862	3,880	2,170	1,340	1,700	1,440	227	511	203	215	203	495
29	844	688	2,680	2,610	------	2,160	333	324	203	215	247	495
30	826	2,030	3,460	2,990	------	2,390	415	227	203	211	329	490
31	802	------	3,950	3,260	------	2,770	------	203	------	211	329	------
TOTAL	18,749	83,503	89,610	74,619	41,328	58,351	32,872	14,054	10,861	4,839	6,745	10,989
MEAN	605	2,783	2,891	2,407	1,476	1,882	1,096	453	362	156	218	366
MAX	904	4,690	4,480	5,070	4,000	5,040	3,510	820	1,140	215	329	527
MIN	211	333	1,130	187	324	199	227	203	203	106	203	203
AC-FT	37,190	165,600	177,700	148,000	81,970	115,700	65,200	27,880	21,540	9,600	13,380	21,800
MEAN†	130	3,151	2,590	2,453	1,643	2,219	1,395	586	384	73.2	16.6	16.0
CFSM†	.48	11.67	9.59	9.09	6.09	8.22	5.17	2.17	1.42	.27	.06	.06
IN.†	.55	13.02	11.06	10.48	6.34	9.48	5.77	2.50	1.59	.31	.07	.07
AC-FT†	7,970	187,480	159,250	150,810	91,240	136,450	83,0202	36,010	22,830	4,500	1,020	950

CAL YR 1973 TOTAL 281,689 MEAN 772 MAX 4,690 MIN 128 AC-FT 558,700 MEAN† 7,807 CFSM† 28.91 IN.† 39.26 AC-FT† 565,230

WTR YR 1974 TOTAL 446,520 MEAN 1,223 MAX 5,070 MIN 106 AC-FT 885,700 MEAN† 1,218 CFSM† 4.51 IN.† 61.24 AC-FT† 881,670

† Adjusted for change in contents in Dorena Lake.

14156500 MOSBY CREEK AT MOUTH, NEAR COTTAGE GROVE, OREG.

LOCATION.--Lat 43°46'35", long 122°59'55", in SE¼NW¼ sec.1, T.21 S., R.3 W., Lane County, on left bank 3.5 mi (5.6 km) southeast of Cottage Grove and at mile 1.0 (1.6 km).

DRAINAGE AREA.--95.3 mi^2 (246.8 km^2).

PERIOD OF RECORD.--September 1946 to current year. Monthly discharge only September 1946, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 676.62 ft (206.234 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--28 years, 250 ft^3/s (7.08 m^3/s), 35.62 in/yr (905 mm/yr), 181,100 acre-ft/yr (223 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 8,620 ft^3/s (244 m^3/s) Jan. 15, gage height, 10.31 ft (3.142 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Sept. 24.

Period of record: Maximum discharge, 14,100 ft^3/s (399 m^3/s) Dec. 22, 1964, gage height, 13.37 ft (4.075 m), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2.8 ft^3/s (0.079 m^3/s) Aug. 15, 1973, Sept. 24, 1974.

REMARKS.--Records good. No regulation. Small diversions for irrigation above station.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	382	1,170	522	1,180	1,030	1,290	170	72	24	8.1	7.0
2	17	170	732	382	846	852	1,260	152	72	25	7.3	6.6
3	16	110	570	314	594	612	919	136	72	23	7.7	5.9
4	15	192	480	260	666	504	690	124	76	22	7.3	5.6
5	14	1,070	395	224	666	600	564	121	142	22	7.3	5.9
6	14	1,580	364	188	516	1,300	498	130	142	26	7.3	5.3
7	16	822	1,460	170	401	840	406	127	115	24	7.0	5.0
8	17	1,650	1,090	160	328	594	359	121	95	26	7.3	5.0
9	15	1,370	666	150	287	445	468	113	82	33	7.3	5.3
10	14	1,140	486	140	252	377	480	103	76	29	6.6	6.3
11	14	1,040	417	130	228	373	474	95	70	29	6.3	6.6
12	15	1,780	522	142	216	588	480	103	68	26	6.6	6.3
13	15	1,360	1,420	996	192	666	401	103	65	22	6.6	5.9
14	14	1,400	947	1,660	184	1,640	332	93	62	21	7.3	4.8
15	14	1,490	792	5,850	180	1,800	278	136	60	19	7.3	4.3
16	14	1,400	678	3,790	417	1,110	240	159	56	18	6.6	4.3
17	13	1,050	1,300	2,100	594	1,110	216	159	53	18	5.9	4.3
18	13	744	954	1,330	1,060	792	204	166	49	19	7.0	3.8
19	14	528	660	1,280	1,860	582	192	212	46	20	11	4.0
20	29	810	666	933	1,020	445	180	216	45	18	12	3.8
21	156	1,100	968	660	768	359	163	188	40	17	9.5	3.8
22	159	926	732	492	678	305	156	159	38	15	8.1	4.0
23	86	780	636	391	570	260	152	139	39	13	7.0	3.6
24	84	1,000	576	332	486	232	173	124	35	13	6.6	3.2
25	93	1,040	912	328	456	224	296	115	34	13	6.3	3.2
26	72	1,060	666	368	564	224	260	113	35	13	5.6	3.4
27	55	961	690	377	678	232	228	108	34	12	4.8	3.8
28	76	1,310	1,260	401	975	762	200	98	33	12	4.5	4.5
29	121	2,100	1,470	364	------	1,020	177	90	29	11	5.0	3.8
30	80	1,660	1,200	314	------	1,420	177	82	26	11	5.6	3.8
31	95	------	750	510	------	1,150	------	76	------	9.0	6.3	------
TOTAL	1,390	32,075	25,629	25,258	16,862	22,448	11,913	4,031	1,861	603.0	219.1	143.1
MEAN	44.8	1,069	827	815	602	724	397	130	62.0	19.5	7.07	4.77
MAX	159	2,100	1,470	5,850	1,860	1,800	1,290	216	142	33	12	7.0
MIN	13	110	364	130	180	224	152	76	26	9.0	4.5	3.2
CFSM	.47	11.2	8.68	8.55	6.32	7.60	4.17	1.36	.65	.20	.07	.05
IN.	.54	12.52	10.00	9.86	6.58	8.76	4.65	1.57	.73	.24	.09	.06
AC-FT	2,760	63,620	50,840	50,100	33,450	44,530	23,630	8,000	3,690	1,200	435	284

CAL YR 1973 TOTAL 93,808.3 MEAN 257 MAX 2,100 MIN 3.2 CFSM 2.70 IN 36.62 AC-FT 186,100
WTR YR 1974 TOTAL 142,432.2 MEAN 390 MAX 5,850 MIN 3.2 CFSM 4.09 IN 55.60 AC-FT 282,500

PEAK DISCHARGE (BASE, 2,500 CFS).--Jan. 15 (1430) 8,620 cfs (10.31 ft); Mar. 14 (1930) 2,540 cfs (5.53 ft).

14157500 COAST FORK WILLAMETTE RIVER NEAR GOSHEN, OREG.

LOCATION.--Lat 43°58'50", long 122°57'55", in NW¼ sec.29, T.18 S., R.2 W., Lane County, on right bank at downstream side of bridge on State Highway 58, 2.5 mi (4.0 km) southeast of Goshen, and at mile 6.4 (10.3 km).

DRAINAGE AREA.--642 mi² (1,663 km²).

PERIOD OF RECORD.--August 1905 to February 1912, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 473.80 ft (144.414 m) above mean sea level. Aug. 23, 1905, to Feb. 7, 1912, nonrecording gage at site 600 ft (183 m) upstream at different datum.

AVERAGE DISCHARGE.--30 years (1905-11, 1950-74), 1,715 ft³/s (48.6 m³/s), 1,243,000 acre-ft/yr (1.53 km³/yr).

EXTREMES.--Current year: Maximum discharge, 20,400 ft³/s (578 m³/s) Jan. 15, gage height, 14.93 ft (4.551 m); minimum, 133 ft³/s (3.76 m³/s) July 24.

Period of record: Maximum discharge, 58,500 ft³/s (1,660 m³/s) Nov. 22, 1909, gage height, 19.5 ft (5.94 m), site and datum then in use, from rating curve extended above 15,000 ft³/s (425 m³/s); minimum, 36 ft³/s (1.02 m³/s) Sept. 29, 30, Oct. 11, 12, 1908.

REMARKS.--Records good. Flow regulated since 1942 by Cottage Grove Lake (see station 14153000) and since 1949 by Dorena Lake (see station 14155000). Several small diversions for logponds and irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1248: 1905-12. WSP 1935: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	1,330	9,430	6,100	7,000	6,480	7,540	946	376	270	243	553
2	545	1,680	8,600	4,230	6,340	6,100	8,120	1,200	392	266	248	553
3	759	1,400	7,690	2,480	5,220	4,510	6,890	1,000	486	257	243	547
4	950	694	6,610	2,140	4,320	2,620	5,140	626	498	257	248	547
5	1,030	1,840	5,680	2,240	3,330	2,690	4,500	586	854	266	248	528
6	1,090	5,190	5,260	1,860	2,710	5,350	3,550	713	1,590	266	243	516
7	1,090	6,160	5,680	900	2,170	4,440	2,540	806	1,260	270	243	516
8	1,090	5,090	3,730	900	1,890	1,580	2,060	750	902	285	248	516
9	1,070	8,510	6,550	850	1,460	2,460	2,360	633	720	230	243	522
10	1,060	8,560	6,520	750	1,100	4,970	2,440	573	605	209	243	522
11	1,050	8,230	5,890	700	864	3,950	2,490	469	547	189	243	516
12	1,040	10,100	5,640	600	878	2,950	2,910	456	553	181	248	516
13	1,030	7,630	8,150	2,460	950	3,880	2,940	458	612	166	243	504
14	1,020	8,710	7,370	5,440	973	7,280	2,150	447	566	162	248	504
15	1,000	8,630	5,810	15,800	995	9,090	1,700	480	540	151	243	504
16	988	4,830	5,080	13,500	1,870	8,730	1,320	528	492	155	243	586
17	973	6,230	6,310	7,750	2,950	8,020	1,150	626	355	147	248	1,230
18	958	7,400	4,230	11,200	4,090	6,620	1,070	870	340	174	261	1,230
19	950	6,850	7,180	11,200	7,240	4,580	1,050	991	335	151	275	1,230
20	943	6,160	7,450	9,920	8,240	2,900	982	1,070	381	155	266	1,220
21	1,000	8,290	6,300	9,410	7,010	2,510	886	1,050	370	147	257	1,200
22	1,120	7,250	5,330	8,910	5,490	2,030	830	1,010	305	143	257	1,190
23	1,030	6,520	4,020	7,690	3,990	1,610	822	982	305	136	257	1,170
24	1,150	6,770	3,770	6,630	2,830	1,350	1,210	928	300	136	252	1,150
25	1,180	6,950	4,580	6,300	2,710	1,230	2,230	774	290	234	252	982
26	1,270	7,840	5,230	6,260	3,870	1,170	1,770	830	290	248	248	599
27	1,110	8,390	5,930	4,040	4,370	1,130	862	870	295	252	239	586
28	980	8,140	6,050	2,290	5,810	3,710	782	790	285	252	243	579
29	1,030	8,020	7,010	3,560	------	6,280	758	586	270	252	492	573
30	1,000	5,750	7,420	4,120	------	8,660	838	458	280	252	534	586
31	943	------	6,860	4,950	------	7,180	------	392	------	248	547	------
TOTAL	30,890	189,144	191,360	165,180	100,670	136,060	73,690	22,900	15,394	6,507	8,546	21,975
MEAN	996	6,305	6,173	5,328	3,595	4,389	2,463	739	513	210	276	733
MAX	1,270	10,100	9,430	15,800	8,240	9,090	8,120	1,200	1,590	285	547	1,230
MIN	441	694	3,730	600	864	1,130	758	392	270	136	239	504
AC-FT	61,270	375,200	379,600	327,600	199,700	269,900	146,600	45,420	30,530	12,910	16,950	43,590

CAL YR 1973 TOTAL 606,737 MEAN 1,662 MAX 10,100 MIN 168 AC-FT 1,203,000
WTR YR 1974 TOTAL 962,516 MEAN 2,637 MAX 15,800 MIN 136 AC-FT 1,909,000

14158500 MCKENZIE RIVER AT OUTLET OF CLEAR LAKE, OREG.

LOCATION.--Lat 44°21'40", long 121°59'40", in SE¼ sec.8, T.14 S., R.7 E., Linn County, Willamette National Forest, on west bank of Clear Lake in narrow channel, 150 ft (46 m) upstream from outlet and at mile 89.6 (144.2 km).

DRAINAGE AREA.--92.4 mi² (239.3 km²), hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--June 1912 to September 1915, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 3,015.32 ft (919.070 m) above mean sea level (levels by Eugene Water and Electric Board). June 20, 1912, to July 31, 1915, nonrecording gage at site 1.0 mi (1.6 km) north at different datum.

AVERAGE DISCHARGE.--30 years, 483 ft³/s (13.7 m³/s), 70.99 in/yr (1,803 mm/yr), 349,900 acre-ft/yr (431 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Jan. 16, gage height, 6.87 ft (2.094 m); minimum 160 ft³/s (4.53 m³/s) Oct. 19.
Period of record: Maximum discharge, 3,300 ft³/s (93.5 m³/s) Dec. 23, 1964, gage height, 8.15 ft (2.484 m); minimum, 160 ft³/s (4.53 m³/s) Sept. 29, 30, 1915, Oct. 19, 1973.

REMARKS.--Records fair. Flow regulated by natural storage in lake. At high stages an undetermined flow enters numerous sinkholes in lava rock along south edge of lake above station.

REVISIONS (WATER YEARS).--WSP 1288: 1949. WSP 1318: 1915(M). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	230	524	876	842	514	857	827	994	895	547	458
2	192	256	511	839	787	508	831	835	1.050	854	543	452
3	190	291	495	805	744	498	802	831	1.110	809	537	449
4	186	322	482	776	722	492	776	846	1.190	776	517	446
5	184	335	473	744	683	485	762	888	1.480	762	533	437
6	184	332	467	708	648	473	758	978	1.330	744	530	434
7	182	327	524	673	621	464	744	1.030	1.230	726	520	428
8	176	337	641	631	601	455	726	1.100	1.170	701	514	425
9	176	348	631	590	580	449	708	1.120	1.170	690	508	422
10	174	366	590	553	567	443	683	1.090	1.240	679	501	414
11	174	537	570	527	550	440	680	1.060	1.240	659	501	408
12	172	816	580	517	540	443	697	1.110	1.280	669	498	400
13	170	794	601	540	527	437	687	1.100	1.500	662	495	397
14	168	791	594	594	524	445	669	1.070	1.500	659	495	394
15	166	694	584	1.410	517	449	662	1.040	1.480	652	495	388
16	166	937	607	2.330	527	449	652	1.020	1.400	645	495	383
17	164	934	744	1.700	524	492	652	982	1.390	635	492	380
18	162	827	805	1.470	530	580	662	953	1.400	628	495	377
19	162	762	733	1.660	567	587	669	922	1.380	621	495	372
20	168	736	729	1.500	573	573	669	895	1.270	614	495	369
21	170	711	869	1.370	567	567	669	872	1.180	607	488	366
22	168	673	880	1.270	560	563	694	869	1.150	618	485	369
23	172	638	827	1.200	547	563	726	872	1.120	594	485	369
24	180	604	798	1.130	540	567	747	872	1.080	587	479	361
25	182	577	899	1.080	533	573	762	914	1.040	584	479	353
26	186	537	880	1.020	533	584	762	1.070	1.010	580	476	348
27	188	504	922	970	527	601	756	1.130	957	577	476	345
28	196	504	1.020	922	524	662	754	1.070	926	553	473	342
29	196	533	1.000	876	------	726	754	1.020	899	557	467	340
30	198	527	982	842	------	839	776	986	895	553	467	337
31	218	------	926	839	------	872	------	974	------	547	461	------
TOTAL	5.568	16.690	21.888	30.962	16.505	16.794	21.748	30.336	36.061	20.437	15.462	11.763
MEAN	180	556	706	999	589	542	725	979	1.202	659	499	392
MAX	218	937	1.020	2.330	842	872	857	1.130	1.500	895	547	458
MIN	162	230	467	517	517	437	652	827	895	547	461	337
CFSM	1.95	6.02	7.64	10.8	6.37	5.87	7.85	10.6	13.0	7.13	5.40	4.24
IN.	2.24	6.72	8.81	12.47	6.64	6.76	8.76	12.21	14.52	8.23	6.22	4.74
AC-FT	11.040	33.100	43.410	61.410	32.740	33.310	43.140	60.170	71.530	40.540	30.670	23.330

CAL YR 1973 TOTAL 139.476 MEAN 382 MAX 1.020 MIN 162 CFSM 4.13 IN 56.15 AC-FT 276.700
WTR YR 1974 TOTAL 244.214 MEAN 669 MAX 2.330 MIN 162 CFSM 7.24 IN 98.32 AC-FT 484.400

14158790 SMITH RIVER ABOVE SMITH RIVER RESERVOIR, NEAR BELKNAP SPRINGS, OREG.

LOCATION.--Lat 44°20'05", long 122°02'43", in SW¼SW¼ sec. 24, T.14 S., R. 6 E., Linn County, in Willamette National Forest, on right bank 200 ft (61 m) upstream from Smith River Reservoir, 0.7 mi (1.1 km) downstream from Browder Creek, 10 mi (16 km) north of town of Belknap Springs, and at mile 4.4 (7.1 km).

DRAINAGE AREA.--16.2 mi^3 (42.0 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,610.00 ft (795.528 m) above mean sea level (levels by Eugene Water and Electric Board). Prior to Sept. 10, 1964, at datum 1.56 ft (0.475 m) higher.

AVERAGE DISCHARGE.--14 years, 96.1 ft^3/s (2.72 m^3/s), 80.56 in/yr (2,046 mm/yr), 69,620 acre-ft/yr (85.8 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Jan. 15, gage height, 8.30 ft (2.530 m); minimum, 4.2 ft^3/s (0.12 m^3/s) Sept. 28-30.

Period of record: Maximum discharge, 5,160 ft^3/s (146 m^3/s) Dec. 22, 1964, gage height, 11.9 ft (3.63 m), from floodmark, from rating curve extended above 560 ft^3/s (15.9 m^3/s), on basis of slope-area measurement of peak flow; minimum, 3.2 ft^3/s (0.091 m^3/s) Sept. 24-29, 1967.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	223	203	177	151	54	261	238	264	94	17	7.4
2	16	125	162	138	101	51	203	203	327	78	16	6.8
3	15	94	135	114	82	46	160	197	340	72	16	6.5
4	14	82	114	99	78	43	128	215	460	69	15	6.5
5	13	73	101	96	67	46	128	287	544	70	15	6.5
6	16	63	110	80	59	46	135	357	396	64	15	6.3
7	16	57	432	75	54	42	133	384	311	58	14	6.3
8	14	157	350	70	52	39	128	392	258	55	14	6.0
9	13	428	241	63	52	37	120	347	255	55	13	6.8
10	13	512	189	60	53	37	110	281	291	52	13	6.5
11	12	540	177	61	54	38	138	287	347	51	12	6.3
12	13	512	174	73	55	42	162	330	376	45	12	6.0
13	12	353	165	203	52	42	140	255	372	43	12	5.5
14	11	247	140	396	51	66	128	209	360	43	12	5.5
15	11	334	148	918	58	162	123	174	320	42	11	5.3
16	11	512	247	770	92	220	116	145	287	38	11	5.3
17	11	334	480	548	79	317	128	125	301	37	10	5.3
18	10	226	344	516	97	235	154	114	297	37	9.7	5.0
19	11	168	247	512	191	186	148	107	258	36	12	5.0
20	23	140	392	334	133	154	135	103	203	34	12	5.0
21	45	116	448	229	105	133	138	105	180	32	10	4.6
22	38	97	324	174	87	120	165	123	171	30	9.7	4.6
23	32	85	258	138	75	112	186	148	154	28	9.3	4.6
24	44	76	274	114	66	110	191	177	135	27	8.9	4.4
25	49	72	340	103	64	128	183	258	120	25	8.9	4.4
26	41	63	261	89	62	157	160	350	99	23	8.3	4.4
27	36	78	388	81	57	191	140	350	92	23	8.3	4.4
28	45	197	396	73	57	249	135	307	89	21	8.0	4.4
29	47	206	376	67	------	307	145	261	94	19	7.7	4.2
30	41	197	314	70	------	384	203	226	107	19	7.4	4.2
31	212	------	232	125	------	307	------	226	------	18	7.4	------
TOTAL	902	6,367	8,162	6,566	2,184	4,101	4,524	7,281	7,808	1,338	355.6	164.0
MEAN	29.1	212	263	212	78.0	132	151	235	260	43.2	11.5	5.47
MAX	212	540	480	918	191	384	261	392	544	94	17	7.4
MIN	10	57	101	60	51	37	110	103	89	18	7.4	4.2
CFSM	1.80	13.1	16.2	13.1	4.81	8.15	9.32	14.5	16.0	2.67	.71	.34
IN.	2.07	14.62	18.74	15.08	5.02	9.42	10.39	16.72	17.93	3.07	.82	.38
AC-FT	1,790	12,630	16,190	13,020	4,330	8,130	8,970	14,440	15,490	2,650	705	325

CAL YR 1973 TOTAL 29,209.0 MEAN 80.0 MAX 540 MIN 3.4 CFSM 4.94 IN 67.07 AC-FT 57,940
WTR YR 1974 TOTAL 49,752.6 MEAN 136 MAX 918 MIN 4.2 CFSM 8.40 IN 114.25 AC-FT 98,680

PEAK DISCHARGE (BASE, 800 CFS).—Jan. 15 (0900) 1,030 cfs (8.30 ft).

WILLAMETTE RIVER BASIN

14158795 SMITH RIVER RESERVOIR NEAR BELKNAP SPRINGS, OREG.

LOCATION.--Lat 44°18'20", long 122°02'40", in SW¼SW¼ sec.36, T.14 S., R.6 E., Linn County, Willamette National Forest, in intake tower near left end of Smith River Dam on Smith River, 800 ft (244 m) upstream from Bunchgrass Creek, 8 mi (13 km) north of town of Belknap Springs, and at mile 2.1 (3.4 km).

DRAINAGE AREA.--18.2 mi^2 (47.1 km^2).

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Telemark with equipment to transmit elevations at 15-minute intervals. Datum of gage is at mean sea level (levels by Eugene Water and Electric Board).

EXTREMES.--Current year: Maximum contents, 14,520 acre-ft (17.9 hm^3) Sept. 8, elevation, 2,603.85 ft (793.653 m); minimum, 11,360 acre-ft (14.0 hm^3) Dec. 30, elevation, 2,581.89 ft (786.960 m).

Period of record: Maximum contents, 15,200 acre-ft (18.7 hm^3) Dec. 22, 1964, elevation, 2,606.5 ft (794.46 m); minimum, 5,700 acre-ft (7.03 hm^3) Apr. 11, 14, 1964, elevation, 2,532.90 ft (772.028 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed in 1963 by Eugene Water and Electric Board; storage began Mar. 18, 1963. Total capacity is 15,000 acre-ft (18.5 hm^3) at elevation 2,605.0 ft (794.00 m), top of spillway gates, and usable capacity is 9,900 acre-ft (12.2 hm^3) between elevations 2,525.0 ft (769.62 m), minimum power pool, and 2,605.0 ft (794.00 m). Storage of 5,100 acre-ft (6.29 hm^3), below elevation 2,525.0 ft (769.62 m), not normally available for release. Water used for power generation. Figures herein represent total contents.

COOPERATION.--Elevations and area-volume curves furnished by Eugene Water and Electric Board.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	2,600.10	14,120	-
Oct. 31	2,600.33	14,160	+40
Nov. 30	2,582.86	11,500	-2,660
Dec. 31	2,583.54	11,600	+100
CAL YR 1973	-	-	-580
Jan. 31	2,583.25	11,560	-40
Feb. 28	2,583.94	11,650	+90
Mar. 31	2,582.68	11,480	-170
Apr. 30	2,592.75	12,940	+1,460
May 31	2,591.99	12,820	-120
June 30	2,591.99	12,820	0
July 31	2,583.19	11,550	-1,270
Aug. 31	2,582.69	11,480	-70
Sept.30	2,582.49	11,450	-30
WTR YR 1974	-	-	-2,670

14158850 MCKENZIE RIVER BELOW TRAIL BRIDGE DAM, NEAR BELKNAP SPRINGS, OREG.

LOCATION.--Lat 44°16'05", long 122°02'55", in T.15 S., R.6 E. (unsurveyed), Linn County, in Willamette National Forest, on left bank 0.4 mi (0.6 km) downstream from Trail Bridge Dam, 0.5 mi (0.8 km) upstream from Anderson Creek, 5 mi (8 km) north of town of Belknap Springs, and at mile 81.5 (131.1 km).

DRAINAGE AREA.--184 mi^2 (477 km^2).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,980.00 ft (603.504 m) above mean sea level (levels by Eugene Water and Electric Board). Prior to Oct. 11, 1963, at datum 5.60 ft (1.707 m) higher.

AVERAGE DISCHARGE.--15 years, 1,070 ft^3/s (30.3 m^3/s), 78.97 in/yr (2,006 mm/yr), 775,200 acre-ft/yr (956 hm^3/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,200 ft^3/s (147 m^3/s) Jan. 16, gage height, 10.11 ft (3.082 m); minimum, 489 ft^3/s (13.8 m^3/s) Oct. 13.

Period of record: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Dec. 22, 1964, gage height, 12.45 ft (3.795 m), from rating curve extended above 3,700 ft^3/s (105 m^3/s) on basis of slope-area measurement of peak flow; minimum, 185 ft^3/s (5.24 m^3/s) Feb. 3, 1963; minimum daily, 425 ft^3/s (12.0 m^3/s) Nov. 23, 1964.

REMARKS.--Records good. Flow regulated since 1963 by Smith River Reservoir (see station 14158795). Diurnal fluctuations by powerplants and by Trail Bridge reregulating reservoir upstream. Water is diverted from McKenzie River in SW¼ sec.20, T.14 S., R.7 E., to Smith River Reservoir and returned to river above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	910	1,360	1,790	1,700	1,150	1,680	1,600	1,710	1,500	1,070	966
2	597	870	1,280	1,600	1,590	1,110	1,670	1,560	1,810	1,440	1,060	950
3	606	838	1,250	1,550	1,560	1,080	1,670	1,520	1,890	1,450	1,080	910
4	606	982	1,180	1,540	1,520	1,070	1,510	1,530	2,200	1,420	1,100	926
5	606	1,110	1,150	1,450	1,460	1,100	1,520	1,610	2,890	1,370	1,100	918
6	597	1,150	1,140	1,410	1,360	1,110	1,530	1,780	2,370	1,370	1,090	942
7	606	958	1,680	1,380	1,400	1,060	1,490	1,850	2,020	1,350	1,070	926
8	561	1,150	1,620	1,350	1,330	1,060	1,480	1,950	1,930	1,350	1,030	934
9	543	1,400	1,450	1,260	1,230	1,040	1,480	1,960	1,890	1,330	1,020	942
10	588	1,610	1,350	1,200	1,220	1,010	1,430	1,840	1,870	1,300	1,030	934
11	597	1,730	1,380	1,210	1,220	1,070	1,360	1,860	2,050	1,420	1,030	918
12	570	1,850	1,320	1,160	1,200	974	1,380	1,920	2,110	1,410	1,030	926
13	507	1,520	1,390	1,360	1,140	1,050	1,390	1,820	2,150	1,300	1,020	894
14	579	1,530	1,320	1,720	1,200	1,130	1,400	1,770	2,100	1,280	1,060	918
15	597	1,740	1,280	3,370	1,150	1,220	1,370	1,710	2,020	1,260	910	910
16	579	1,920	1,530	4,490	1,220	1,250	1,350	1,640	1,930	1,270	974	878
17	543	1,720	1,850	3,300	1,200	1,490	1,360	1,630	1,930	1,270	974	902
18	543	1,640	1,610	3,080	1,180	1,400	1,410	1,520	1,990	1,260	982	886
19	543	1,520	1,510	3,180	1,480	1,410	1,360	1,540	1,910	1,190	1,050	886
20	606	1,520	1,720	2,840	1,350	1,350	1,270	1,490	1,820	1,170	1,010	878
21	651	1,430	1,910	2,290	1,260	1,240	1,290	1,480	1,730	1,200	999	878
22	597	1,360	1,740	2,050	1,330	1,240	1,280	1,450	1,690	1,190	1,010	870
23	588	1,380	1,740	1,910	1,200	1,260	1,350	1,440	1,690	1,160	999	854
24	597	1,300	1,710	1,840	1,140	1,240	1,420	1,510	1,610	1,150	1,010	870
25	651	1,200	1,890	1,800	1,200	1,240	1,450	1,590	1,580	1,130	1,010	854
26	642	1,270	1,750	1,720	1,170	1,340	1,460	1,700	1,670	1,120	942	830
27	624	1,220	1,930	1,620	1,120	1,290	1,450	1,810	1,610	1,120	958	838
28	642	1,300	2,080	1,650	1,140	1,510	1,370	1,820	1,430	1,120	974	830
29	660	1,360	2,130	1,550	------	1,530	1,400	1,770	1,460	1,100	1,100	830
30	624	1,340	2,030	1,550	------	1,760	1,510	1,670	1,570	1,140	1,040	830
31	902	------	1,790	1,670	------	1,730	------	1,680	------	1,130	1,020	------
TOTAL	18,767	40,828	49,070	59,890	36,270	38,514	43,090	52,020	56,630	39,270	31,752	26,828
MEAN	605	1,361	1,583	1,932	1,295	1,242	1,436	1,678	1,888	1,267	1,024	894
MAX	902	1,920	2,130	4,490	1,700	1,760	1,680	1,960	2,890	1,500	1,100	966
MIN	507	838	1,140	1,160	1,120	974	1,270	1,440	1,430	1,100	910	830
AC-FT	37,220	80,980	97,330	118,800	71,940	76,390	85,470	103,200	112,300	77,890	62,980	53,210
MEAN†	606	1,316	1,585	1,931	1,297	1,240	1,461	1,676	1,887	1,246	1,023	894
CFSM†	3.29	7.15	8.61	10.49	7.05	6.74	7.94	9.11	10.26	6.77	5.56	4.86
IN.†	3.80	7.98	9.93	12.10	7.34	7.77	8.86	10.51	11.45	7.81	6.41	5.42
AC-FT†	37,260	78,320	97,430	118,760	72,030	76,220	86,930	103,080	112,300	76,620	62,910	53,180

CAL YR 1973 TOTAL 346,940 MEAN 951 MAX 2,130 MIN 507 AC-FT 688,200 MEAN† 950 CFSM† 5.16 IN.† 70.09 AC-FT† 687,620
WTR YR 1974 TOTAL 492,929 MEAN 1,350 MAX 4,490 MIN 507 AC-FT 977,700 MEAN† 1,347 CFSM† 7.32 IN.† 99.38 AC-FT† 975,030

† Adjusted for change in contents in Smith River Reservoir.

14159000 MCKENZIE RIVER AT MCKENZIE BRIDGE, OREG.

LOCATION.--Lat 44°10'45", long 122°07'45", on line between NE¼ and NW¼ sec.18, T.16 S., R.6 E., Lane County, Willamette National Forest, on left bank 1.0 mi (1.6 km) upstream from Glen Creek, 1.7 mi (2.7 km) east of town of McKenzie Bridge, and at mile 69.9 (112.5 km).

DRAINAGE AREA.--348 mi^2 (901 km^2) at cableway 1.2 mi (1.9 km) upstream, where all discharge measurements are made.

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "near McKenzie Bridge" August 1910 to September 1911 and October 1914 to September 1916.

GAGE.--Water-stage recorder. Datum of gage is 1,419.04 ft (432.523 m) above mean sea level. Prior to June 2, 1932, nonrecording gage at several sites within 2 mi (3 km) of present site at various datums.

AVERAGE DISCHARGE.--64 years, 1,686 ft^3/s (47.7 m^3/s), 1,222,000 acre-ft/yr (1.51 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 7,810 ft^3/s (221 m^3/s) Jan. 16, gage height, 5.48 ft (1.670 m); minimum, 940 ft^3/s (26.6 m^3/s) Oct. 13.

Period of record: Maximum discharge, 19,100 ft^3/s (541 m^3/s) Dec. 22, 1964, gage height, 10.36 ft (3.158 m), from rating curve extended above 7,100 ft^3/s (201 m^3/s) on basis of slope-area measurement of peak flow; minimum, 805 ft^3/s (22.8 m^3/s) Oct. 20, 1931.

REMARKS.--Records excellent. Flow regulated since 1963 by Smith River Reservoir (see station 14158795). No diversion above station. All records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 1248: 1911-16, 1920-25. WSP 1448: 1919. WSP 1638: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	1,700	2,670	3,260	3,350	2,070	3,280	2,670	2,790	2,510	1,710	1,530
2	1,030	1,420	2,460	2,910	2,980	2,020	3,210	2,590	2,980	2,370	1,680	1,500
3	1,030	1,370	2,370	2,720	2,860	1,950	3,090	2,510	3,080	2,370	1,700	1,450
4	1,030	1,470	2,200	2,660	2,770	1,920	2,800	2,530	3,530	2,340	1,720	1,460
5	1,030	1,600	2,100	2,450	2,660	2,070	2,770	2,700	4,300	2,250	1,710	1,450
6	1,020	1,740	2,070	2,350	2,460	2,160	2,800	3,010	3,670	2,240	1,700	1,480
7	1,030	1,480	3,510	2,280	2,460	2,010	2,700	3,120	3,290	2,200	1,690	1,460
8	998	1,950	3,330	2,210	2,350	1,960	2,650	3,250	3,080	2,200	1,650	1,460
9	980	2,700	2,810	2,070	2,200	1,910	2,620	3,210	3,040	2,180	1,630	1,470
10	998	3,110	2,560	1,950	2,170	1,840	2,510	3,000	3,020	2,130	1,640	1,470
11	1,020	3,320	2,530	1,960	2,160	1,900	2,530	3,020	3,300	2,270	1,640	1,450
12	1,010	3,630	2,460	1,930	2,100	1,810	2,620	3,180	3,400	2,250	1,640	1,440
13	956	2,980	2,530	2,410	2,010	1,870	2,550	2,980	3,430	2,110	1,630	1,420
14	989	2,830	2,450	3,160	2,070	2,130	2,490	2,870	3,390	2,090	1,650	1,430
15	1,010	3,220	2,460	5,980	2,040	2,660	2,410	2,800	3,260	2,040	1,520	1,440
16	998	3,640	2,840	7,030	2,230	2,760	2,350	2,670	3,110	2,040	1,560	1,400
17	972	3,160	3,750	5,450	2,200	3,330	2,340	2,650	3,120	2,040	1,580	1,420
18	972	2,860	3,260	5,020	2,250	2,940	2,440	2,520	3,210	2,030	1,560	1,400
19	972	2,580	2,900	5,290	3,120	2,770	2,370	2,530	3,070	1,930	1,670	1,400
20	1,030	2,560	3,160	4,390	2,740	2,590	2,210	2,460	2,880	1,900	1,600	1,390
21	1,110	2,410	3,650	3,810	2,510	2,380	2,230	2,450	2,760	1,930	1,580	1,380
22	1,060	2,250	3,290	3,510	2,490	2,300	2,250	2,450	2,720	1,910	1,580	1,380
23	1,030	2,250	3,290	3,280	2,250	2,280	2,370	2,450	2,700	1,860	1,570	1,370
24	1,070	2,180	3,290	3,110	2,100	2,230	2,450	2,550	2,620	1,850	1,570	1,370
25	1,110	2,090	3,740	3,050	2,160	2,230	2,460	2,720	2,560	1,830	1,580	1,360
26	1,090	2,140	3,300	2,950	2,130	2,410	2,420	2,970	2,660	1,800	1,490	1,340
27	1,070	2,160	3,870	2,790	2,030	2,350	2,380	3,090	2,620	1,800	1,520	1,350
28	1,110	2,520	4,310	2,830	2,060	2,740	2,250	3,040	2,390	1,800	1,530	1,340
29	1,120	2,740	4,330	2,700	-------	2,880	2,300	2,910	2,420	1,800	1,670	1,340
30	1,080	2,690	4,060	2,720	-------	3,370	2,490	2,730	2,590	1,800	1,610	1,340
31	1,590	-------	3,470	3,070	-------	3,260	-------	2,720	-------	1,760	1,570	-------
TOTAL	32,555	72,750	95,020	101,300	66,910	73,100	76,340	86,350	90,990	63,630	50,150	42,490
MEAN	1,050	2,425	3,065	3,268	2,390	2,358	2,545	2,785	3,033	2,053	1,618	1,416
MAX	1,590	3,640	4,330	7,030	3,350	3,370	3,280	3,250	4,300	2,510	1,720	1,530
MIN	956	1,370	2,070	1,930	2,010	1,810	2,210	2,450	2,390	1,760	1,490	1,340
AC-FT	64,570	144,300	188,500	200,900	132,700	145,000	151,400	171,300	180,500	126,200	99,470	84,280

CAL YR 1973 TOTAL 596,853 MEAN 1,635 MAX 4,330 MIN 956 AC-FT 1,184,000
WTR YR 1974 TOTAL 851,585 MEAN 2,333 MAX 7,030 MIN 956 AC-FT 1,689,000

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OREG.

LOCATION.--Lat 44°02'50", long 122°13'00", in T.17 S., R.5 E. (unsurveyed), Lane County, in Willamette National Forest, on right bank 100 ft (30 m) upstream from Tipsoo Creek, 8.0 mi (12.9 km) south of Rainbow, 9.0 mi (14.5 km) southeast of town of Blue River, and at mile 10.4 (16.7 km). Records include flow of Tipsoo Creek.

DRAINAGE AREA.--160 mi^2 (414 km^2) at cableway 0.2 mi (0.3 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1971, published as South Fork McKenzie River above Cougar Reservoir.

GAGE.--Water-stage recorder. Datum of gage is 1,709.51 ft (521.059 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--17 years, 651 ft^3/s (18.4 m^3/s), 55.25 in/yr (1,403 mm/yr), 471,600 acre-ft/yr (581 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,920 ft^3/s (139 m^3/s) Jan. 15, gage height, 10.32 ft (3.146 m); minimum, 190 ft^3/s (5.38 m^3/s) Oct. 18, 19.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Dec. 22, 1964, gage height, 20.06 ft (6.114 m), from floodmark, from rating curve extended above 7,600 ft^3/s (215 m^3/s), on basis of slope-area measurement of peak flow; minimum, 183 ft^3/s (5.18 m^3/s) Sept. 16, 1973.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report. All records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 1638: Drainage area. WSP 1935: 1958 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	884	1,480	1,390	1,340	715	1,650	1,220	1,280	693	303	249
2	212	556	1,220	1,190	1,070	685	1,530	1,130	1,470	637	300	246
3	209	437	1,100	1,020	899	630	1,330	1,070	1,570	593	297	246
4	207	415	977	899	919	608	1,180	1,100	1,940	567	295	246
5	205	463	889	797	828	726	1,170	1,300	2,710	548	292	246
6	209	571	919	715	741	863	1,240	1,550	2,210	530	292	243
7	212	534	2,250	667	682	705	1,140	1,690	1,790	504	289	241
8	205	1,160	1,970	622	659	622	1,070	1,730	1,510	493	286	241
9	203	1,670	1,510	585	659	585	1,040	1,610	1,400	489	284	243
10	201	1,810	1,300	552	678	567	955	1,390	1,450	478	281	246
11	198	1,870	1,270	526	689	582	1,090	1,330	1,650	482	281	241
12	201	2,080	1,220	593	678	630	1,230	1,430	1,820	445	278	238
13	198	1,630	1,240	1,010	637	608	1,080	1,270	1,860	423	278	235
14	196	1,370	1,130	1,740	656	1,200	977	1,160	1,880	411	278	232
15	194	1,420	1,200	3,970	663	2,180	930	1,090	1,740	404	276	232
16	194	1,690	1,350	4,390	782	2,050	873	999	1,590	394	273	230
17	192	1,420	2,000	3,170	746	2,210	884	919	1,570	388	270	230
18	192	1,140	1,700	3,010	1,050	1,750	983	853	1,580	382	270	230
19	196	909	1,390	3,250	1,880	1,460	955	802	1,480	375	276	227
20	220	909	1,430	2,310	1,300	1,280	894	761	1,280	366	278	225
21	297	838	1,830	1,760	1,070	1,150	868	741	1,160	356	270	225
22	259	751	1,600	1,440	914	1,060	955	777	1,110	350	268	225
23	254	705	1,560	1,250	797	972	1,050	817	1,050	343	265	223
24	276	705	1,650	1,090	720	924	1,120	873	966	337	262	223
25	273	705	2,220	1,040	700	977	1,070	1,080	904	330	262	220
26	246	663	1,690	961	726	1,070	972	1,370	792	327	259	220
27	225	822	1,880	889	678	1,130	894	1,500	715	321	257	220
28	268	1,340	2,490	853	710	1,270	858	1,450	685	318	257	220
29	284	1,690	2,590	797	------	1,400	868	1,310	682	314	254	218
30	254	1,600	2,210	761	------	1,780	1,080	1,200	705	311	251	218
31	619	------	1,710	1,090	------	1,620	------	1,170	------	305	251	------
TOTAL	7,315	32,757	48,975	44,337	23,871	34,009	31,936	36,692	42,549	13,214	8,535	6,979
MEAN	236	1,092	1,580	1,430	853	1,097	1,065	1,184	1,418	426	275	233
MAX	619	2,080	2,590	4,390	1,880	2,210	1,650	1,730	2,710	693	303	249
MIN	192	415	889	526	637	567	858	741	682	305	251	218
CFSM	1.48	6.83	9.88	8.94	5.33	6.86	6.66	7.40	8.86	2.66	1.72	1.46
IN.	1.70	7.62	11.39	10.31	5.55	7.91	7.43	8.53	9.89	3.07	1.98	1.62
AC-FT	14,510	64,970	97,140	87,940	47,350	67,460	63,350	72,780	84,400	26,210	16,930	13,840

CAL YR 1973 TOTAL 205,896 MEAN 564 MAX 2,590 MIN 185 CFSM 3.53 IN 47.87 AC-FT 408,400
WTR YR 1974 TOTAL 331,169 MEAN 907 MAX 4,390 MIN 192 CFSM 5.67 IN 77.00 AC-FT 656,900

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1330	8.15	2,800	1-15	2030	10.32	4,920
12-24	2330	7.91	2,600	6- 5	0800	8.20	2,840
12-29	1530	8.24	2,880				

14159400 COUGAR LAKE NEAR RAINBOW, OREG.

LOCATION.--Lat 44°07'40", long 122°14'25", in SE¼SE¼ sec.31, T.16 S., R.5 E., Lane County, Willamette National Forest, in intake tower near left end of Cougar Dam on South Fork McKenzie River, 2.7 mi (4.3 km) south of Rainbow, and at mile 4.5 (7.2 km).

DRAINAGE AREA.--207 mi² (536 km²).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1971, published as Cougar Reservoir near Rainbow.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 209,000 acre-ft (258 hm³) June 25 to July 1, elevation, 1,691.01 ft (515.420 m); minimum, 69,210 acre-ft (85.3 hm³) Jan. 13, elevation, 1,540.14 ft (469.435 m).

Period of record: Maximum contents, 214,000 acre-ft (264 hm³) July 13, 1966, elevation, 1,694.93 ft (516.615 m); minimum, 33,690 acre-ft (41.5 hm³) Oct. 31 to Nov. 2, 1965, elevation, 1,475.40 ft (449.702 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed in 1963 by the Corps of Engineers; storage began September 1963. Total capacity is 219,100 acre-ft (270 hm³) at elevation 1,699 ft (517.9 m), maximum pool, and usable capacity is 164,800 acre-ft (203 hm³) between elevations 1,516 ft (462.1 m), minimum power pool, and 1,699 ft (517.9 m). Reservoir used for flood control and power generation. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,510	50,920	1,650	162,300
1,550	75,940	1,695	214,000
1,600	114,800		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128,200	83,340	93,020	79,820	88,710	114,000	159,800	189,400	205,400	209,000	206,400	188,300
2	126,700	82,600	92,560	77,360	88,530	115,300	161,100	190,600	205,400	208,900	206,000	187,100
3	125,200	81,530	90,360	76,290	87,840	116,700	161,800	191,500	205,400	208,800	205,700	185,900
4	123,700	80,520	87,760	75,660	87,550	118,200	161,300	192,600	205,600	208,800	205,400	184,700
5	122,100	79,710	84,910	75,290	87,530	119,100	161,000	194,100	206,000	208,800	205,100	183,500
6	120,600	79,170	82,680	74,720	87,300	119,800	161,800	196,700	206,200	208,700	204,700	182,300
7	119,100	78,440	87,550	73,980	86,870	119,900	163,000	198,400	206,200	208,700	204,400	181,100
8	117,500	79,880	90,170	73,100	86,480	120,200	163,900	198,800	206,200	208,800	204,100	179,900
9	116,000	83,080	90,180	72,140	87,690	121,500	164,800	199,000	206,200	208,800	203,700	178,800
10	114,300	86,500	88,510	71,160	88,960	122,800	165,400	199,700	206,400	208,700	203,400	177,600
11	112,700	90,170	85,750	70,050	89,200	122,900	166,700	201,100	207,200	208,700	203,000	176,300
12	111,100	94,740	82,970	69,260	90,600	122,800	168,400	202,900	208,000	208,700	202,700	175,100
13	109,500	97,530	80,230	69,580	91,770	122,600	169,400	204,000	208,100	208,700	202,100	173,800
14	107,900	99,560	77,070	72,490	92,800	125,700	170,100	204,900	208,000	208,700	201,300	172,500
15	106,100	101,500	74,100	85,020	94,380	132,200	170,600	205,200	207,900	208,700	200,600	171,200
16	104,500	104,200	72,810	98,220	96,590	137,700	171,300	205,100	208,200	208,600	199,800	170,000
17	102,800	105,100	75,020	106,100	98,300	143,500	172,600	205,100	208,700	208,600	199,000	168,700
18	101,100	103,600	74,880	113,100	100,600	147,300	174,500	205,200	208,800	208,600	198,300	167,400
19	99,440	101,200	73,060	118,500	106,200	149,300	175,600	205,100	208,700	208,600	197,500	166,100
20	97,820	99,530	73,000	119,300	107,900	149,600	176,200	205,100	208,800	208,600	196,800	165,400
21	96,540	97,700	74,840	116,000	108,900	149,400	176,700	205,200	208,800	208,600	196,000	164,100
22	95,090	95,580	74,160	109,500	109,700	149,200	177,400	205,200	208,800	208,600	195,200	162,800
23	93,600	93,430	73,390	102,800	111,300	149,700	178,400	205,200	208,600	208,600	194,400	161,400
24	92,320	91,260	73,230	97,340	113,000	150,000	179,600	205,300	208,900	208,500	193,600	160,100
25	90,910	89,140	74,880	92,860	113,400	150,600	179,700	205,400	209,000	208,500	192,800	158,800
26	89,380	86,900	73,660	91,590	113,500	151,400	182,200	205,400	209,000	208,300	192,000	157,400
27	87,790	85,180	73,320	90,860	113,300	152,400	184,100	205,300	209,000	208,000	191,800	156,100
28	86,390	85,370	77,040	89,940	113,400	153,300	186,000	205,300	209,000	207,700	191,900	154,700
29	85,030	88,420	81,200	88,960	-------	154,200	186,900	205,300	209,000	207,400	191,600	153,400
30	83,450	91,100	83,320	87,850	-------	156,400	188,000	205,200	209,000	207,100	190,600	152,000
31	83,090	-------	82,330	87,930	-------	158,000	-------	205,400	-------	206,700	189,500	-------
MAX	128,200	105,100	93,020	119,300	113,500	158,000	188,000	205,400	209,000	209,000	206,400	188,300
MIN	83,090	78,440	72,810	69,260	86,480	114,000	159,800	189,400	205,400	206,700	189,500	152,000
(†)	1,560.06	1,570.82	1,559.01	1,566.62	1,598.37	1,645.83	1,673.38	1,688.05	1,691.00	1,689.16	1,674.68	1,639.95
(‡)	-46,510	+8,010	-8,770	+5,600	+25,470	+44,600	+30,000	+17,400	+3,600	-2,300	-17,200	-37,300

WTR YR 1974 MAX 209,000 MIN 69,260 AC-FT‡ +22,400

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OREG.

LOCATION.--Lat 44°08'10", long 122°14'50", in NW¼ sec.31, T.16 S., R.5 E., Lane County, in Willamette National Forest, on right bank 0.2 mi (0.3 km) upstream from Cougar Creek, 0.6 mi (1.0 km) downstream from Cougar Dam, 2.1 mi (3.4 km) south of Rainbow, and at mile 3.9 (6.3 km).

DRAINAGE AREA.--208 mi^2 (539 km^2).

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,236.42 ft (376.861 m) above mean sea level (Bureau of Public Roads bench mark). Oct. 1 to Nov. 4, 1947, nonrecording gage at site 40 ft (12 m) upstream at datum 0.80 ft (0.244 m) higher.

AVERAGE DISCHARGE.--27 years, 898 ft^3/s (25.4 m^3/s), 58.63 in/yr (1,489 mm/yr), 650,600 acre-ft/yr (802 hm^3/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,100 ft^3/s (144 m^3/s) Jan. 22, gage height, 4.80 ft (1.463 m); minimum, 105 ft^3/s (2.97 m^3/s) July 29; minimum daily, 175 ft^3/s (4.96 m^3/s) Jan. 16.

Period of record: Maximum discharge, 17,600 ft^3/s (498 m^3/s) Dec. 11, 1956, gage height, 8.66 ft (2.640 m), from rating curve extended above 8,100 ft^3/s (229 m^3/s); maximum gage height, 8.90 ft (2.713 m) Dec. 22, 1955 (backwater from debris); minimum discharge, 17 ft^3/s (0.48 m^3/s) Nov. 18, 1965; minimum daily, 97 ft^3/s (2.75 m^3/s) May 16, 1973.

Maximum discharge, 24,500 ft^3/s (694 m^3/s) Dec. 28, 1945, gage height, 8.8 ft (2.68 m), from floodmarks, at Corps of Engineers gage at site 40 ft (12 m) upstream at datum 0.80 ft (0.244 m) higher; gage height at present site and datum, about 9.3 ft (2.83 m), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated since 1963 by Cougar Lake (see station 14159400), usable capacity, 165,000 acre-ft (203 hm^3). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1638: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	920	1,080	1,140	2,860	1,510	748	1,490	780	1,460	733	479	788
2	920	1,080	1,790	2,600	1,510	273	1,490	780	1,700	719	479	788
3	930	1,060	2,450	1,690	1,510	186	1,490	780	1,850	651	462	788
4	930	1,090	2,450	1,320	1,440	193	1,690	772	2,460	589	456	788
5	930	1,100	2,450	1,100	1,140	691	1,680	772	3,430	577	456	796
6	930	1,100	2,210	1,100	1,080	930	1,210	764	2,690	565	456	788
7	940	1,100	1,150	1,100	1,080	920	910	1,340	2,120	529	451	796
8	940	1,110	1,610	1,110	1,010	670	901	1,930	1,740	512	456	804
9	940	1,090	1,970	1,100	292	179	910	1,810	1,600	540	456	796
10	950	1,070	2,450	1,080	288	182	901	1,360	1,600	529	456	804
11	960	1,050	2,860	1,080	719	677	901	940	1,600	529	456	796
12	960	1,040	2,880	1,090	288	910	901	970	1,840	501	456	804
13	970	1,030	2,860	1,100	277	856	901	970	2,120	440	571	804
14	970	1,070	2,880	1,100	404	468	892	970	2,220	429	627	812
15	970	1,120	2,880	512	186	434	901	1,200	2,010	451	627	812
16	980	1,110	2,420	175	186	552	740	1,230	1,660	456	627	812
17	980	1,540	1,990	664	190	664	424	1,080	1,550	440	627	820
18	990	2,180	2,450	1,000	197	698	424	1,030	1,740	404	627	847
19	1,000	2,250	2,660	1,850	583	1,080	658	980	1,670	389	633	847
20	1,000	1,970	1,940	2,720	960	1,480	796	874	1,350	389	627	829
21	1,010	1,970	1,720	3,750	950	1,510	796	874	1,240	384	633	829
22	1,010	1,970	2,450	4,900	838	1,380	796	892	1,210	389	633	829
23	1,020	1,970	2,450	4,540	292	940	796	940	1,070	389	633	838
24	920	1,970	2,460	3,890	182	940	796	1,020	940	389	633	838
25	1,030	1,970	2,460	3,350	691	940	796	1,290	930	389	633	838
26	1,030	1,970	2,800	1,800	940	940	389	1,690	804	434	633	847
27	1,040	1,970	2,950	1,490	940	930	228	1,870	764	484	358	847
28	1,050	1,930	1,990	1,510	950	1,200	186	1,730	719	479	228	847
29	1,100	1,100	1,990	1,510	-------	1,460	571	1,530	726	479	409	847
30	1,070	1,110	2,160	1,490	-------	1,510	780	1,330	719	479	719	847
31	1,080	-------	2,670	1,510	-------	1,490	-------	1,250	-------	479	780	-------
TOTAL	30,470	43,190	71,590	56,091	20,633	25,951	26,344	35,748	47,532	15,146	16,777	24,526
MEAN	983	1,440	2,309	1,809	737	837	878	1,153	1,584	489	541	818
MAX	1,100	2,250	2,950	4,900	1,510	1,510	1,690	1,930	3,430	733	780	847
MIN	920	1,030	1,140	175	182	179	186	764	719	384	228	788
AC-FT	60,440	85,670	142,000	111,300	40,930	51,470	52,250	70,910	94,280	30,040	33,280	48,650
MEAN†	227	1,574	2,167	1,901	1,196	1,562	1,382	1,436	1,645	451	262	187
CFSM†	1.09	7.57	10.42	9.14	5.75	7.51	6.64	6.90	7.91	2.17	1.26	.90
IN.†	1.26	8.45	12.41	10.54	5.99	8.66	7.42	7.96	8.83	2.50	1.45	1.01
AC-FT†	13,930	93,680	133,230	116,900	66,400	96,070	82,250	88,310	97,880	27,740	16,080	11,150

CAL YR 1973 TOTAL 259,263 MEAN 710 MAX 4,460 MIN 97 AC-FT 514,200 MEAN† 730 CFSM† 3.51 IN.† 47.65 AC-FT† 528,490
WTR YR 1974 TOTAL 413,998 MEAN 1,134 MAX 4,900 MIN 175 AC-FT 821,200 MEAN† 1,165 CFSM† 5.60 IN.† 76.07 AC-FT† 843,600

† Adjusted for change in contents of Cougar Lake.

14161100 BLUE RIVER BELOW TIDBITS CREEK, NEAR BLUE RIVER, OREG.

LOCATION.--Lat 44°13'05", long 122°15'50", in SE¼NE¼ sec.36, T.15 S., R.4 E., Lane County, in Willamette National Forest, on left bank 0.2 mi (0.3 km) downstream from Tidbits Creek, 5.5 mi (8.8 km) northeast of town of Blue River, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--45.8 mi^2 (118.6 km^2).

PERIOD OF RECORD.--September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,386.90 ft (422.727 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--11 years, 276 ft^3/s (7.82 m^3/s), 81.84 in/yr (2,079 mm/yr), 200,000 acre-ft/yr (247 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,500 ft^3/s (156 m^3/s) Jan. 15, gage height, 8.75 ft (2.667 m); minimum, 10 ft^3/s (0.28 m^3/s) Sept. 24-30.

Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) Dec. 22, 1964, gage height, 15.32 ft (4.670 m), from floodmarks, from rating curve extended above 2,800 ft^3/s (79.3 m^3/s) on basis of slope-area measurement of peak flow; minimum, 8.2 ft^3/s (0.23 m^3/s) Sept. 28, 29, Oct. 2-4, 1965.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	520	730	422	1,170	308	1,070	493	347	108	30	14
2	34	254	565	323	646	305	880	386	398	95	29	13
3	31	180	454	260	442	255	646	356	395	87	28	13
4	29	168	398	223	438	235	509	386	646	83	27	13
5	28	170	339	188	371	471	473	537	1,010	83	27	13
6	31	200	414	168	302	435	529	624	615	80	27	13
7	34	218	2,310	156	258	305	489	615	445	72	26	12
8	29	912	1,210	146	235	245	442	597	362	72	26	12
9	26	1,690	670	130	245	215	438	513	341	77	25	13
10	25	1,750	498	118	272	208	401	398	365	74	24	13
11	25	1,800	518	114	293	245	619	414	407	72	24	12
12	27	1,910	555	144	272	332	700	525	431	65	24	12
13	26	1,170	615	730	240	302	501	386	407	60	24	12
14	23	964	575	1,480	258	637	414	329	380	57	24	12
15	23	1,360	690	4,360	326	1,470	407	305	332	56	23	12
16	20	1,830	1,000	3,360	597	1,400	365	308	293	53	22	12
17	20	994	1,960	1,900	477	1,640	383	284	296	53	22	12
18	20	575	1,130	1,450	633	900	461	287	287	51	22	12
19	21	367	695	1,580	1,470	660	407	308	250	49	22	12
20	47	360	1,210	862	727	553	359	278	204	46	20	12
21	148	323	1,750	570	513	469	356	260	186	44	18	12
22	108	269	1,090	424	395	435	417	287	178	42	17	11
23	86	245	1,030	365	317	398	435	314	162	41	17	11
24	144	254	1,040	317	272	392	421	332	150	39	16	10
25	158	269	1,350	365	263	501	389	404	142	37	16	10
26	108	243	748	377	275	610	335	513	127	36	15	10
27	84	398	1,350	332	255	655	305	493	115	34	15	10
28	104	898	1,620	323	296	939	302	421	110	33	15	10
29	116	874	1,550	329	------	1,160	335	359	108	32	15	10
30	96	766	1,150	414	------	1,430	477	299	111	31	15	10
31	669	------	675	1,020	------	1,050	------	293	------	30	15	------
TOTAL	2,376	21,921	29,889	22,970	12,258	19,110	14,265	12,304	9,600	1,792	670	353
MEAN	76.6	731	964	741	438	616	476	397	320	57.8	21.6	11.8
MAX	669	1,910	2,310	4,360	1,470	1,640	1,070	624	1,010	108	30	14
MIN	20	168	339	114	235	208	302	260	108	30	15	10
CFSM	1.67	16.0	21.0	16.2	9.56	13.4	10.4	8.67	6.99	1.26	.47	.26
IN.	1.93	17.80	24.28	18.66	9.96	15.52	11.59	9.99	7.80	1.46	.54	.29
AC-FT	4,710	43,480	59,280	45,560	24,310	37,900	28,290	24,400	19,040	3,550	1,330	700

CAL YR 1973 TOTAL 92,190 MEAN 253 MAX 2,310 MIN 10 CFSM 5.52 IN 74.88 AC-FT 182,900
WTR YR 1974 TOTAL 147,508 MEAN 404 MAX 4,360 MIN 10 CFSM 8.82 IN 119.81 AC-FT 292,600

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 7	1030	7.69	3,360	1-15	1300	8.75	5,500
12-17	0730	6.97	2,400	2-19	0230	6.69	2,130
12-21	0100	6.74	2,120	3-17	0130	6.71	2,160
12-27	2330	6.81	2,200				

14161500 LOOKOUT CREEK NEAR BLUE RIVER, OREG.

LOCATION.--Lat 44°12'35", long 122°15'20", in T.15 or 16 S., R.5 E. (unsurveyed), Lane County, in Willamette National Forest, on left bank 6.0 mi (9.7 km) northeast of town of Blue River, and at mile 0.5 (0.8 km).

DRAINAGE AREA.--24.1 mi² (62.4 km²).

PERIOD OF RECORD.--August 1949 to September 1955, September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,377.76 ft (419.941 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--17 years, 133 ft³/s (3.77 m³/s), 74.94 in/yr (1,903 mm/yr), 96,360 acre-ft/yr (119 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,310 ft³/s (37.1 m³/s) Jan. 15, gage height, 5.56 ft (1.695 m); minimum, 8.0 ft³/s (0.227 m³/s) Sept. 24-26, 28-30.
Period of record: Maximum discharge, 6,660 ft³/s (189 m³/s) Dec. 22, 1964, gage height, 8.88 ft (2.707 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s), on basis of slope-area measurement of peak flow; minimum, 6.4 ft³/s (0.181 m³/s) Nov. 25-30, 1952.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	239	356	302	515	161	452	189	166	55	20	13
2	20	145	293	239	348	157	416	168	189	50	20	11
3	20	112	263	198	266	141	352	157	193	47	19	11
4	19	106	233	172	260	137	266	161	293	44	19	11
5	19	123	208	151	225	254	236	196	368	42	19	11
6	20	149	211	137	191	281	227	239	260	40	19	11
7	20	153	630	117	170	186	217	251	201	39	18	10
8	19	352	485	101	155	151	201	251	168	39	18	10
9	19	525	352	95	149	133	193	222	161	39	18	11
10	18	575	290	92	145	124	177	181	168	39	18	12
11	18	585	272	92	145	128	219	193	186	38	17	11
12	19	672	269	96	141	143	254	217	196	34	17	10
13	18	500	284	214	133	141	219	172	186	34	17	10
14	18	456	299	380	151	263	193	157	177	32	17	10
15	17	505	356	1,030	168	505	179	145	157	31	17	9.7
16	17	480	384	990	230	476	166	139	143	30	16	9.7
17	17	376	590	684	233	590	164	132	143	30	16	9.7
18	17	281	472	565	287	424	175	130	141	29	16	9.3
19	17	217	368	570	515	320	170	130	124	29	18	9.3
20	26	217	416	416	332	266	159	126	106	28	18	9.0
21	48	214	535	311	263	225	155	123	98	27	16	9.0
22	41	189	456	251	214	198	164	128	92	26	15	9.0
23	36	179	460	217	179	181	177	133	84	25	14	8.3
24	49	184	460	193	157	172	177	145	79	25	14	8.3
25	51	191	510	203	149	184	170	179	73	24	14	8.3
26	43	179	396	208	149	208	155	222	67	23	14	8.3
27	38	257	540	196	143	233	145	217	62	22	13	8.3
28	44	396	630	203	155	296	139	191	59	22	13	8.3
29	45	420	678	201	------	392	141	168	58	21	13	8.3
30	40	392	550	222	------	490	170	147	59	22	13	8.0
31	211	------	392	408	------	436	------	145	------	21	13	------
TOTAL	1,026	9,369	12,638	9,254	6,168	7,996	6,228	5,354	4,457	1,007	509	292.8
MEAN	33.1	312	408	299	220	258	208	173	149	32.5	16.4	9.76
MAX	211	672	678	1,030	515	590	452	251	368	55	20	13
MIN	17	106	208	92	133	124	139	123	58	21	13	8.0
CFSM	1.37	12.9	16.9	12.4	9.13	10.7	8.63	7.18	6.18	1.35	.68	.41
IN.	1.58	14.46	19.51	14.28	9.52	12.34	9.61	8.26	6.88	1.55	.79	.45
AC-FT	2,040	18,580	25,070	18,360	12,230	15,860	12,350	10,620	8,840	2,000	1,010	581

CAL YR 1973 TOTAL 40,242.0 MEAN 110 MAX 678 MIN 8.3 CFSM 4.56 IN 62.12 AC-FT 79,820
WTR YR 1974 TOTAL 64,298.8 MEAN 176 MAX 1,030 MIN 8.0 CFSM 7.30 IN 99.25 AC-FT 127,500

PEAK DISCHARGE (BASE, 1,000 CFS).—Jan. 15 (1430) 1,310 cfs (5.56 ft).

14162100 BLUE RIVER LAKE NEAR BLUE RIVER, OREG.

LOCATION.--Lat 44°10'20", long 122°19'40", in SE¼SE¼ sec.16, T.16 S., R.4 E., Lane County, in intake tower near left end of Blue River Dam on Blue River, 1.4 mi (2.3 km) north of town of Blue River, and at mile 1.7 (2.7 km).

DRAINAGE AREA.--87.3 mi^2 (226.1 km^2).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1971, published as Blue River Reservoir near Blue River.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 85,170 acre-ft (105 km^3) June 18, elevation 1,352.48 ft (412.236 m); minimum, 305 acre-ft (376,000 m^3) Dec. 7, elevation, 1,125.47 ft (343.043 m).

Period of record: Maximum contents, 85,360 acre-ft (105 hm^3) July 29, 1969, elevation, 1,352.68 ft (412.297 m); minimum observed since first filling in 1968, 305 acre-ft (376,000 m^3) Dec. 7, 1973, elevation, 1,125.47 ft (343.043 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete gate and spillway section, completed in 1968 by Corps of Engineers; storage began October 1968. Total capacity is 89,520 acre-ft (110 hm^3) at elevation 1,357 ft (413.6 m), maximum pool, and usable capacity is 85,550 acre-ft (105 hm^3) between elevations 1,180 ft (359.7 m), minimum flood control pool, and 1,357 ft (413.6 m), maximum pool. Reservoir used for flood control. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,120	136	1,160	1,870	1,250	19,260
1,130	437	1,180	3,970	1,290	36,960
1,140	764	1,200	7,030	1,340	73,710
1,150	1,210	1,220	11,040	1,353	85,660

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBFR 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP
1	20,740	20,670	15,330	7,100	14,740	36,350	58,360	75,870	82,960	84,960	72,930	41,680
2	20,750	19,800	13,240	4,100	13,190	37,230	59,220	76,110	82,870	84,980	71,750	40,930
3	20,740	18,660	9,020	4,000	10,590	38,040	59,870	76,540	82,840	84,980	70,520	40,060
4	20,730	17,600	4,830	4,000	9,860	38,710	59,270	77,150	82,990	84,950	69,320	39,450
5	20,720	18,620	3,710	3,990	10,830	40,390	58,560	77,830	82,900	84,920	68,180	39,260
6	20,710	15,720	4,110	4,000	12,110	41,160	59,210	78,630	82,890	84,890	67,020	39,140
7	20,710	14,320	305	4,000	13,160	41,690	60,080	79,190	82,980	84,830	65,840	39,080
8	20,700	15,330	743	4,010	14,080	42,560	60,840	79,410	82,970	84,850	64,670	38,960
9	20,680	17,980	586	4,010	14,990	42,770	61,800	79,410	83,020	84,870	63,500	38,900
10	20,660	18,220	10,790	4,030	15,880	42,420	62,650	79,790	83,080	84,900	62,340	38,840
11	20,640	18,370	6,380	4,030	16,750	42,800	63,840	80,650	83,400	84,900	61,160	38,780
12	20,620	20,210	4,800	4,060	17,540	43,540	64,810	81,320	83,940	84,900	60,020	38,720
13	20,600	20,210	5,540	5,710	18,240	44,120	65,480	81,960	84,400	84,870	58,860	38,600
14	20,570	18,370	5,010	9,590	19,080	46,620	66,070	82,740	84,680	84,820	57,680	38,540
15	20,540	19,870	4,010	22,960	20,120	50,880	66,690	83,050	84,680	84,790	55,270	38,480
16	20,500	24,120	6,100	33,670	21,800	52,470	67,330	83,040	84,770	84,710	54,060	38,370
17	20,460	24,020	12,360	38,560	23,100	52,210	67,980	83,010	85,030	84,720	52,930	38,250
18	20,430	20,650	13,360	39,360	25,360	50,510	68,660	83,050	85,170	84,800	51,780	38,190
19	20,400	16,950	10,210	39,360	28,880	50,700	69,190	83,040	85,120	84,800	50,560	38,130
20	20,440	14,860	7,990	34,000	28,760	51,210	69,750	83,030	85,050	84,570	49,380	38,010
21	20,810	12,580	10,190	28,240	29,020	51,370	70,350	82,960	85,040	84,160	48,200	37,950
22	21,060	9,940	7,810	21,900	29,990	51,390	71,010	82,990	85,070	83,680	46,960	37,830
23	21,210	9,310	5,610	17,990	30,670	51,560	71,630	83,000	85,080	83,070	46,430	37,780
24	21,560	4,540	5,280	15,360	30,690	51,860	71,670	83,010	85,030	82,270	46,430	37,660
25	21,800	4,080	6,800	13,980	31,980	52,440	71,140	83,030	85,000	81,230	46,150	37,600
26	21,650	4,010	5,600	13,680	33,090	53,050	71,650	83,010	84,860	80,090	46,010	37,540
27	21,220	4,500	6,640	13,260	34,060	53,700	72,550	82,840	84,770	78,900	45,270	37,420
28	20,690	7,270	11,520	12,900	35,310	54,220	73,380	82,840	84,790	77,650	44,140	37,310
29	20,020	11,350	14,620	12,430	------	55,140	74,100	82,870	84,850	76,470	43,490	37,250
30	19,230	14,190	14,390	12,150	------	56,360	75,130	82,840	84,910	75,290	43,030	36,840
31	20,200	------	11,280	13,520	------	57,190	------	82,900	------	74,110	42,380	------
MAX	21,800	24,120	15,330	39,360	35,310	57,190	75,130	83,050	85,170	84,980	72,930	41,680
MIN	19,230	4,010	305	3,990	9,860	36,350	58,360	75,870	82,840	74,110	42,380	36,840
(†)	1,252.80	1,232.80	1,221.04	1,230.24	1,287.09	1,319.93	1,341.60	1,350.09	1,352.21	1,340.46	1,298.9	1,289.8
(‡)	-530	-6,010	-2,910	+2,240	+21,790	+21,880	+17,940	+7,770	+2,010	-10,800	-31,730	-5,540

WTR YR 1974 MAX 85,170 MIN 305 AC-FT ‡ +16,110

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14162200 BLUE RIVER AT BLUE RIVER, OREG.

LOCATION.--Lat 44°09'45", long 122°19'55", in NW¼SE¼ sec.21, T.16 S., R.4 E., Lane County, on right bank 0.3 mi (0.5 km) upstream from Simmonds Creek, 0.7 mi (1.1 km) north of town of Blue River, 0.8 mi (1.3 km) downstream from Blue River Dam, and at mile 0.9 (1.4 km).

DRAINAGE AREA.--87.7 mi^2 (227.1 km^2).

PERIOD OF RECORD.--February 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,056.53 ft (322.030 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 25, 1966, nonrecording gage at datum 0.80 ft (0.244 m) higher.

AVERAGE DISCHARGE.--8 years, 504 ft^3/s (14.3 m^3/s), 365,100 acre-ft/yr (450 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,850 ft^3/s (109 m^3/s) Jan. 22, gage height, 8.11 ft (2.472 m); minimum, 17 ft^3/s (0.48 m^3/s) Dec. 5.

Period of record: Maximum discharge, 7,270 ft^3/s (206 m^3/s) Feb. 23, 1968, gage height, 8.93 ft (2.722 m); minimum, 0.80 ft^3/s (0.023 m^3/s) Oct. 8, 10, 11, 1968; minimum daily, 3.7 ft^3/s (0.10 m^3/s) Oct. 8, 1968.

REMARKS.--Records excellent. Flow regulated since 1968 by Blue River Lake (see station 14162100). No diversion above station. Discharge not adjusted for storage or release from Blue River Lake as losses from reservoir at times exceed natural flow. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	815	834	2.620	1.750	146	1.540	432	580	150	590	324
2	50	954	2.020	1.830	2.020	215	1.370	515	738	148	590	377
3	50	954	2.790	595	2.020	126	1.030	363	704	148	590	412
4	50	954	2.480	465	1.300	203	1.320	327	1.140	148	590	297
5	50	954	1.080	380	396	400	1.260	505	1.830	148	585	112
6	50	1.130	780	342	75	774	665	698	1.080	144	585	77
7	50	1.250	408	315	63	424	452	756	750	130	585	58
8	50	1.150	500	282	52	94	412	888	654	118	585	58
9	50	1.310	1.890	258	53	318	377	870	550	110	580	58
10	49	2.620	2.740	233	53	560	321	480	600	109	580	58
11	49	2.630	2.740	220	54	300	605	321	540	109	575	58
12	49	2.170	1.600	297	55	270	864	535	470	109	575	58
13	49	1.980	906	575	55	303	605	336	470	109	570	58
14	49	2.810	1.400	682	57	345	456	200	510	107	595	58
15	49	1.520	1.740	291	58	671	412	392	560	107	605	58
16	49	473	966	60	188	1.610	352	560	436	103	600	56
17	49	1.700	535	912	294	2,760	333	485	363	76	595	58
18	49	2,780	1.550	2.040	306	2.410	432	470	420	55	590	58
19	49	2.650	2.630	2.510	936	1.130	428	505	448	80	590	58
20	49	1.870	2.720	3.670	1.500	768	345	465	352	180	585	58
21	51	1.870	1.870	3.640	900	774	309	428	297	243	580	57
22	50	1.850	2.790	3.690	318	774	373	452	267	282	590	58
23	50	1.830	2.780	2.740	285	616	432	490	267	333	600	58
24	51	1.680	2.040	2.030	285	525	715	550	267	408	288	57
25	149	960	1.820	1.420	150	525	930	671	243	535	107	58
26	264	720	1.880	972	56	698	300	894	270	590	107	58
27	360	948	2.020	960	58	768	98	924	230	600	373	58
28	457	786	1.020	948	60	1,260	98	698	150	600	525	58
29	551	168	1.600	960	------	1,540	195	585	150	595	333	58
30	574	279	2.340	954	------	1,900	270	495	150	595	235	228
31	578	------	2.740	1.540	------	1,570	------	436	------	595	324	------
TOTAL	4,124	43.765	55.209	38.431	13.397	24,777	17.299	16.726	15.486	7.764	15.802	3.159
MEAN	133	1.459	1.781	1.240	478	799	577	540	516	250	510	105
MAX	578	2.810	2.790	3.690	2.020	2,760	1.540	924	1.830	600	605	412
MIN	49	168	408	60	52	94	98	200	150	55	107	57
AC-FT	8,180	86,810	109.500	76.230	26.570	49.150	34.310	33.180	30.720	15.400	31.340	6.270

CAL YR 1973 TOTAL 163.860 MEAN 449 MAX 2.810 MIN 49 AC-FT 325.000
WTR YR 1974 TOTAL 255.939 MEAN 701 MAX 3.690 MIN 49 AC-FT 507.700

14162500 MCKENZIE RIVER NEAR VIDA, OREG.

LOCATION.--Lat 44°07'30", long 122°28'10", in NE¼NE¼ sec.5, T.17 S., R.3 E., Lane County, on right bank 0.4 mi (0.6 km) downstream from Mason Creek, 5.4 mi (8.7 km) east of Vida, and at mile 47.7 (76.6 km).

DRAINAGE AREA.--930 mi^2 (2,409 km^2) at cableway 0.4 mi (0.6 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.--July 1910 to March 1911 (published as "at Martins Rapids, near Vida"), September 1924 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 855.71 ft (260.820 m) above mean sea level (levels by Eugene Water and Electric Board). July 1, 1910, to Mar. 31, 1911, nonrecording gage at site 3 mi (5 km) downstream at different datum. Sept. 1, 1924, to Nov. 16, 1928, nonrecording gage at site 20 ft (6 m) upstream at datum 0.15 ft (0.046 m) lower. Nov. 17, 1928, to Sept. 23, 1968, water-stage recorder at present site on left bank at datum 0.15 ft (0.046 m) lower.

AVERAGE DISCHARGE.--50 years (1924-74), 4,059 ft^3/s (115 m^3/s), 2,941,000 acre-ft/yr (3.63 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 15,800 ft^3/s (447 m^3/s) Jan. 15, 16, gage height, 6.37 ft (1.942 m); minimum, 2,350 ft^3/s (66.6 m^3/s) Oct. 13.

Period of record: Maximum discharge, 64,400 ft^3/s (1,820 m^3/s) Dec. 28, 1945, gage height, 17.70 ft (5.395 m), site and datum then in use, from rating curve extended above 32,000 ft^3/s (906 m^3/s); minimum, 1,260 ft^3/s (35.7 m^3/s) Nov. 7, 1930, Sept. 17, Oct. 4, 8, 9, 1931.

Flood in January 1923 reached a stage of 17.2 ft (5.24 m), from floodmarks, discharge, 62,000 ft^3/s (1,760 m^3/s).

REMARKS.--Records excellent. Flow regulated since 1963 by Smith River Reservoir (see sta 14158795) and Cougar Lake (see sta 14159400), and since 1968 by Blue River Lake (see sta 14162100). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report. All records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 1124: 1943.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.420	5.230	7.300	10.800	9.910	5.010	8.000	5.230	5.980	4.440	3.410	3.170
2	2.400	4.370	8.190	9.340	8.830	4.420	8.000	5.190	6.750	4.170	3.380	3.190
3	2.380	4.180	9.550	6.770	7.500	3.870	8.000	4.900	7.100	4.050	3.360	3.200
4	2.380	4.350	8.890	6.030	7.000	3.870	8.000	4.880	8.480	3.950	3.380	3.110
5	2.380	4.830	7.320	5.320	6.000	5.680	7.920	5.250	12.300	3.830	3.340	2.920
6	2.400	5.560	6.850	5.070	5.560	7.170	7.000	5.930	9.850	3.790	3.320	2.880
7	2.420	5.210	9.430	4.920	5.280	5.680	6.170	6.600	8.020	3.670	3.300	2.860
8	2.380	6.620	8.690	4.770	5.050	4.660	5.880	7.570	7.100	3.610	3.250	2.790
9	2.370	7.950	8.890	4.570	4.080	3.930	5.810	7.470	6.650	3.690	3.210	2.810
10	2.370	9.610	9.490	4.310	3.930	4.080	5.590	6.420	6.620	3.550	3.210	2.860
11	2.380	9.460	9.880	4.270	4.290	4.330	6.170	5.680	7.000	3.670	3.210	2.830
12	2.400	10.300	8.780	4.420	3.810	4.720	6.850	6.300	7.350	3.630	3.210	2.810
13	2.350	8.750	8.510	5.680	3.610	4.810	6.030	5.780	7.700	3.410	3.250	2.810
14	2.370	9.310	8.830	7.500	3.870	6.070	5.590	5.350	7.870	3.340	3.390	2.770
15	2.420	8.780	9.430	13.100	3.690	8.630	5.320	5.660	7.550	3.340	3.390	2.790
16	2.420	8.020	8.600	14.100	4.460	8.510	5.010	5.810	6.850	3.280	3.330	2.760
17	2.380	8.540	9.790	12.200	4.680	11.000	4.500	5.520	6.600	3.260	3.350	2.760
18	2.380	9.430	9.880	12.500	5.320	9.070	4.700	5.230	6.970	3.190	3.310	2.790
19	2.380	8.980	10.400	14.400	8.660	7.380	4.830	5.230	6.820	3.120	3.510	2.790
20	2.520	8.080	10.200	14.400	7.970	6.920	4.740	4.960	6.000	3.130	3.450	2.770
21	2.830	8.220	10.200	13.700	6.800	6.580	4.640	4.850	5.610	3.250	3.350	2.760
22	2.740	7.870	11.000	14.100	5.850	6.180	4.740	4.900	5.440	3.250	3.330	2.760
23	2.620	7.800	11.200	12.500	4.700	5.450	4.960	4.960	5.280	3.230	3.330	2.740
24	2.610	7.870	10.400	10.700	4.250	5.270	5.300	5.140	5.030	3.280	3.110	2.720
25	2.880	7.250	11.700	9.850	4.550	5.270	5.610	5.730	4.880	3.380	2.880	2.700
26	2.920	6.970	10.500	7.800	4.900	5.580	4.550	6.800	4.790	3.450	2.790	2.690
27	2.940	7.450	11.800	7.320	4.740	5.680	3.910	7.350	4.610	3.510	2.790	2.670
28	3.150	8.340	11.700	7.420	4.940	7.150	3.710	6.950	4.270	3.490	2.720	2.670
29	3.360	7.820	12.400	7.020	------	7.500	4.100	6.400	4.220	3.450	2.810	2.670
30	3.300	7.170	12.300	6.950	------	7.500	4.790	5.810	4.440	3.510	3.040	2.790
31	4.140	------	11.600	8.800	------	8.000	------	5.590	------	3.490	3.220	------
TOTAL	81.390	224.320	303.700	270.630	154.230	189.970	170.420	179.440	198.130	109.410	99.930	84.840
MEAN	2.625	7.477	9.797	8.730	5.508	6.128	5.681	5.788	6.604	3.529	3.224	2.828
MAX	4.140	10.300	12.400	14.400	9.910	11.000	8.000	7.570	12.300	4.440	3.510	3.200
MIN	2.350	4.180	6.850	4.270	3.610	3.870	3.710	4.850	4.220	3.120	2.720	2.670
AC-FT	161.400	444.900	602.400	536.800	305.900	376.800	338.000	355.900	393.000	217.000	198.200	168.300

CAL YR 1973 TOTAL 1.372.030 MEAN 3.759 MAX 12.400 MIN 1.930 AC-FT 2.721.000
WTR YR 1974 TOTAL 2.066.410 MEAN 5.661 MAX 14.400 MIN 2.350 AC-FT 4.099.000

14163000 GATE CREEK AT VIDA, OREG.

LOCATION.--Lat 44°08'45", long 122°34'15", in SW¼ sec.28, T.16 S., R.2 E., Lane County, on right bank 300 ft (91 m) downstream from bridge on State Highway 126, at Vida, and at mile 0.2 (0.3 km).

DRAINAGE AREA.--47.6 mi^2 (123.3 km^2).

PERIOD OF RECORD.--June 1951 to September 1957; annual maximums, water years 1958-65; August 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.56 ft (233.038 m) above mean sea level. June 11, 1951, to Sept. 30, 1957, water-stage recorder, and Oct. 1, 1957, to Aug. 1, 1966, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--14 years (1951-57, 1966-74), 230 ft^3/s (6.51 m^3/s), 65.62 in/yr (1,667 mm/yr), 166,600 acre-ft/yr (205 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Jan. 15, gage height, 7.21 ft (2.198 m); minimum, 14 ft^3/s (0.40 m^3/s) Sept. 24, 25.

Period of record: Maximum discharge, 7,140 ft^3/s (202 m^3/s) Dec. 22, 1964, gage height, 12.18 ft (3.712 m), from slope-area measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) Nov. 26, 27, 1952.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	324	831	492	1.100	477	879	151	79	51	27	21
2	27	163	667	392	786	448	842	141	76	50	27	20
3	25	119	610	327	593	358	732	133	72	48	27	20
4	25	149	540	286	810	365	581	127	163	46	27	20
5	24	263	455	251	690	958	496	125	389	49	27	20
6	25	382	473	227	533	1.120	455	121	263	49	26	19
7	25	375	1.390	209	436	618	399	115	205	45	25	19
8	24	790	911	194	375	451	352	109	168	51	26	18
9	23	1.020	597	179	346	365	368	105	147	53	26	22
10	22	985	470	165	319	330	375	105	131	48	25	23
11	22	842	414	157	291	333	658	129	121	45	25	20
12	24	1.320	399	174	271	378	672	143	111	41	25	19
13	23	990	488	346	247	349	470	119	103	41	25	18
14	22	943	585	622	281	868	368	125	96	39	25	18
15	21	1.080	699	1.930	294	1.270	319	145	93	38	24	17
16	21	1.150	654	1.650	466	937	278	223	89	38	24	17
17	21	831	1.080	1.300	533	916	254	227	84	40	24	17
18	21	548	795	969	831	654	238	194	79	39	25	17
19	21	385	573	900	1.240	510	223	194	77	38	32	17
20	33	451	593	663	737	422	218	176	74	36	29	16
21	76	510	776	499	556	355	198	159	69	34	25	16
22	51	470	667	414	459	316	194	147	67	34	24	15
23	38	510	852	418	375	283	183	135	66	33	23	15
24	61	636	746	389	336	261	190	125	61	32	22	15
25	69	672	847	484	346	256	223	117	63	32	22	14
26	45	645	597	525	361	249	196	109	61	32	21	15
27	38	953	795	536	339	254	183	103	59	31	21	15
28	66	1.210	1.040	645	455	365	170	96	56	30	21	15
29	82	1.360	1.150	556	------	510	161	93	53	30	21	15
30	56	1.040	964	544	------	722	157	87	51	30	22	15
31	319	------	663	826	------	690	------	84	------	29	22	------
TOTAL	1.378	21.116	22.321	17.269	14.406	16.388	11.032	4.162	3.226	1.232	765	528
MEAN	44.5	704	720	557	515	529	368	134	108	39.7	24.7	17.6
MAX	319	1.360	1.390	1.930	1.240	1.270	879	227	389	53	32	23
MIN	21	119	399	157	247	249	157	84	51	29	21	14
CFSM	.93	14.8	15.1	11.7	10.8	11.1	7.73	2.82	2.27	.83	.52	.37
IN.	1.08	16.50	17.44	13.50	11.26	12.81	8.62	3.25	2.52	.96	.60	.41
AC-FT	2.730	41.880	44.270	34.250	28.570	32.510	21.880	8.260	6.400	2.440	1.520	1.050

CAL YR 1973 TOTAL 76,857 MEAN 211 MAX 1.390 MIN 16 CFSM 4.43 IN 60.06 AC-FT 152.400
WTR YR 1974 TOTAL 113.823 MEAN 312 MAX 1.930 MIN 14 CFSM 6.55 IN 88.95 AC-FT 225.800

PEAK DISCHARGE (BASE, 1,800 CFS).--Dec. 7(1100) 1,820 cfs (6.47 ft); Jan. 15 (1200) 2,380 cfs (7.21 ft).

14165000 MOHAWK RIVER NEAR SPRINGFIELD, OREG.

LOCATION.--Lat 44°05'34", long 122°57'20", in SE¼NW¼ sec.17, T.17 S., R.2 W., Lane County, on left bank 50 ft (15 m) downstream from bridge, 1.3 mi (2.1 km) northeast of Springfield, and at mile 1.59 (2.56 km).

DRAINAGE AREA.--177 mi^2 (458 km^2).

PERIOD OF RECORD.--September 1935 to September 1952, October 1963 to current year. Prior to October 1935 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 442.47 ft (134.865 m) above mean sea level. Oct. 1, 1935, to Sept. 30, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 556 ft^3/s (15.7 m^3/s), 42.66 in/yr (1,084 mm/yr), 402,800 acre-ft/yr (497 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,580 ft^3/s (271 m^3/s) Jan. 16, gage height, 18.76 ft (5.718 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 25.

Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Dec. 22, 1964, gage height, 22.60 ft (6.888 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Sept. 9, 1967.

Flood of Dec. 22, 1955, reached a stage of 22.9 ft (6.98 m), from floodmark, probably affected by backwater from McKenzie River, discharge 9,200 ft^3/s (261 m^3/s).

REMARKS.--Records fair. Slight regulation at low flows by log ponds upstream. Many diversions for irrigation above station. Stage affected at times by backwater from McKenzie River.

REVISIONS (WATER YEARS).--WSP 1248: 1439. WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	263	2,680	1,590	2,000	1,800	2,270	400	148	75	30	28
2	32	136	2,060	1,320	1,770	1,700	2,160	400	156	80	29	27
3	30	101	1,500	1,040	1,480	1,400	1,950	340	174	76	29	23
4	30	299	1,200	903	1,800	1,300	1,670	299	232	71	30	22
5	30	510	1,000	803	1,630	1,500	1,450	287	800	75	30	24
6	31	765	1,100	717	1,370	2,300	1,250	280	609	88	28	24
7	41	655	2,850	652	1,170	1,800	1,080	284	375	76	30	23
8	36	860	2,540	593	1,020	1,500	962	317	253	78	30	23
9	32	1,500	1,870	554	911	1,240	1,110	325	198	100	29	24
10	31	2,040	1,560	515	830	1,110	1,010	282	172	92	29	36
11	30	1,850	1,200	477	763	1,040	1,150	253	174	86	28	31
12	33	2,870	1,100	544	714	1,100	1,250	287	184	78	26	25
13	36	2,610	1,400	982	657	1,100	1,070	253	215	71	27	22
14	33	2,290	1,700	1,650	698	1,910	930	239	232	64	27	18
15	31	2,880	1,600	5,620	657	2,970	827	260	224	58	27	16
16	30	3,260	2,000	8,040	971	2,200	765	336	174	58	26	16
17	29	2,430	3,670	5,330	1,220	2,070	676	310	137	75	25	16
18	29	1,750	2,980	3,990	1,630	1,700	622	284	143	76	24	17
19	29	1,200	1,900	3,200	3,070	1,320	572	284	139	76	40	16
20	34	1,400	2,000	2,200	2,200	1,120	557	260	121	68	46	16
21	76	1,600	3,180	1,600	1,750	973	512	241	103	58	37	17
22	96	1,600	2,560	1,400	1,400	871	481	232	98	52	32	15
23	69	1,400	2,260	1,200	1,200	776	466	222	103	49	29	14
24	64	1,500	1,940	1,200	1,100	703	455	212	95	47	27	14
25	83	1,600	2,100	1,200	1,100	657	476	208	97	46	28	14
26	65	1,600	1,750	1,200	1,200	611	497	212	109	45	25	14
27	53	1,500	1,410	1,300	1,500	611	447	244	105	44	23	14
28	57	2,200	2,190	1,200	1,800	1,070	419	220	100	41	23	16
29	105	3,400	2,310	1,270	------	1,430	393	188	88	38	21	16
30	78	3,000	2,260	1,180	------	2,520	400	170	81	37	23	17
31	76	------	1,910	1,420	------	2,470	------	156	------	32	26	------
TOTAL	1,453	49,069	62,380	54,890	37,611	44,912	27,877	8,285	5,839	2,010	884	598
MEAN	46.9	1,636	2,012	1,771	1,343	1,449	929	267	195	64.8	28.5	19.9
MAX	105	3,400	3,670	8,040	3,070	2,970	2,270	400	800	100	46	36
MIN	29	101	1,000	477	657	611	393	156	81	32	21	14
CFSM	.27	9.24	11.4	10.0	7.59	8.19	5.25	1.51	1.10	.37	.16	.11
IN.	.31	10.31	13.11	11.54	7.90	9.44	5.86	1.74	1.23	.42	.19	.13
AC-FT	2,880	97,330	123,700	108,900	74,600	89,080	55,290	16,430	11,580	3,990	1,750	1,190

CAL YR 1973 TOTAL 191,373 MEAN 524 MAX 3,670 MIN 13 CFSM 2.96 IN 40.22 AC-FT 379,600
WTR YR 1974 TOTAL 295,808 MEAN 810 MAX 8,040 MIN 14 CFSM 4.58 IN 62.17 AC-FT 586,700

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1800	10.53	3,520	12-17	1300	11.72	4,230
11-29	0730	12.41	3,600	1-16	0530	18.76	9,580
12- 7	1700	11.13	3,880				

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.

LOCATION.--Lat 44°16'14", long 123°10'21", in NW¼NE¼ sec.16, T.15 S., R.4 W., Linn County, on right bank 75 ft (23 m) north of intersection of First Street and Keeling Street in Harrisburg and at mile 161.0 (259.0 km).

DRAINAGE AREA.--3,420 mi² (8,860 km²), approximately.

PERIOD OF RECORD.--October 1944 to current year. Gage-height records collected at same site in 1927-28, 1931, 1934, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 288.39 ft (87.901 m) above mean sea level. Oct. 1 to Nov. 14, 1944, nonrecording gage at bridge 1,110 ft (338 m) upstream at different datum. Nov. 15, 1944, to Aug. 15, 1973, at site 1,100 ft (335 m) upstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--30 years, 12,620 ft³/s (357 m³/s), 9,143,000 acre-ft/yr (11.3 km³/yr).

EXTREMES.--Current year: Maximum discharge, 64,700 ft³/s (1,830 m³/s) Jan. 16, gage height, 12.84 ft (3.914 m); minimum 4,640 ft³/s (131 m³/s) Aug. 29.

Period of record: Maximum discharge, 210,000 ft³/s (5,950 m³/s) Dec. 29, 1945, gage height, 19.69 ft (6.002 m), from rating curve extended above 115,000 ft³/s (3,260 m³/s); minimum, 1,990 ft³/s (56.4 m³/s) Oct. 30, 1944.

Flood stage of 20.5 ft (6.25 m) was reached in December 1861, and 20.1 ft (6.13 m) in February 1890 (information from Corps of Engineers). Flood of Jan. 1, 1943, reached a stage of 19.1 ft (5.82 m) from National Weather Service.

REMARKS.--Records good. Flow regulated by 8 reservoirs above station (see elsewhere in this report). Many small diversions above station for irrigation. Records of chemical analyses and water temperatures at site 1,100 ft (335 m) upstream on left bank for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,430	12,800	37,600	35,900	35,700	23,000	33,100	9,940	10,900	7,270	5,190	5,490
2	5,680	12,400	36,900	34,800	32,600	22,000	37,000	10,900	11,500	7,110	5,400	5,470
3	5,930	11,700	37,100	27,600	29,400	18,400	36,200	10,800	12,100	7,450	5,400	5,440
4	6,150	11,000	35,800	21,500	28,800	14,600	29,500	9,760	12,500	7,240	5,280	5,440
5	6,280	12,200	31,900	20,300	27,100	16,200	28,700	9,670	18,000	7,160	5,120	5,440
6	6,400	17,700	28,200	19,300	22,700	27,100	23,900	10,400	19,700	7,160	5,150	5,440
7	6,430	20,500	31,200	18,200	19,500	25,700	20,000	10,800	19,400	6,930	5,210	5,350
8	6,430	18,800	28,800	17,700	16,900	17,500	18,400	12,500	17,400	6,820	5,190	5,330
9	6,380	26,500	32,000	16,100	13,200	14,300	17,900	13,700	14,300	6,850	5,150	5,380
10	6,580	29,500	33,600	15,800	11,000	16,400	17,200	13,000	12,800	5,660	5,150	5,440
11	7,250	27,000	33,200	15,800	11,000	16,700	17,000	11,000	13,400	5,390	5,150	5,380
12	8,050	32,500	32,700	13,200	10,900	15,800	20,200	10,700	13,800	6,040	5,190	5,330
13	8,440	27,500	36,300	14,300	9,430	17,900	19,800	10,600	14,400	5,750	5,170	5,990
14	8,440	32,900	38,100	19,500	9,220	20,700	17,400	10,200	15,200	5,490	5,680	6,640
15	8,500	39,100	37,200	40,100	10,000	36,000	15,800	10,700	15,200	5,350	6,410	6,880
16	8,620	29,100	35,200	60,900	10,600	34,300	14,700	11,100	14,400	5,240	6,340	7,840
17	8,830	32,800	40,000	45,000	14,100	34,400	12,800	11,100	13,000	5,210	6,340	9,130
18	8,830	37,100	34,400	43,500	15,500	32,100	12,000	11,200	12,800	5,120	6,290	9,220
19	8,800	36,700	39,800	45,900	26,400	24,800	11,700	11,200	13,300	5,050	6,540	9,310
20	8,920	31,700	39,700	48,100	30,400	20,800	11,800	11,400	13,000	5,010	6,590	9,310
21	9,250	37,400	35,500	47,800	28,100	20,000	11,000	10,800	11,300	5,030	6,540	9,280
22	9,790	37,000	36,500	47,400	23,700	18,800	10,600	10,600	10,500	5,030	6,490	9,280
23	9,370	34,200	34,400	46,200	19,500	17,200	10,800	10,500	10,100	4,900	6,440	9,250
24	9,430	35,300	32,900	39,200	15,300	16,400	12,300	10,900	9,460	4,880	6,110	9,220
25	9,520	33,700	34,900	37,700	15,800	15,600	16,000	10,800	9,040	4,960	5,280	9,220
26	9,880	36,700	34,500	35,100	18,400	15,600	14,800	11,500	8,540	5,150	5,170	8,860
27	9,730	36,700	40,200	32,800	21,600	15,800	9,010	12,600	7,940	5,350	5,010	8,860
28	9,640	39,200	42,800	29,100	20,800	18,000	8,360	12,400	7,680	5,350	4,960	9,010
29	10,100	43,800	41,200	28,300	------	25,600	8,020	11,800	7,370	5,280	4,900	8,980
30	10,100	32,300	44,900	27,200	------	32,500	9,520	11,300	7,240	5,170	5,170	8,920
31	9,940	------	41,000	27,800	------	36,100	------	11,000	------	5,150	5,420	------
TOTAL	253,120	865,800	1,118.5M	972,100	547,650	680,300	525,510	344,870	376,270	179,550	173,430	220,130
MEAN	8,165	28,860	36,080	31,360	19,560	21,950	17,520	11,120	12,540	5,792	5,595	7,338
MAX	10,100	43,800	44,900	60,900	35,700	36,100	37,000	13,700	19,700	7,450	6,590	9,310
MIN	5,430	11,000	28,200	13,200	9,220	14,300	8,020	9,670	7,240	4,880	4,900	5,330
AC-FT	502,100	1,717M	2,219M	1,928M	1,086M	1,349M	1,042M	684,000	746,300	356,100	344,000	436,600

CAL YR 1973 TOTAL 4,047,240 MEAN 11,090 MAX 44,900 MIN 3,580 AC-FT 8,028,000

WTR YR 1974 TOTAL 6,257,230 MEAN 17,140 MAX 60,900 MIN 4,880 AC-FT 12,410,000

14166500 LONG TOM RIVER NEAR NOTI, OREG.

LOCATION.--Lat 44°03'00", long 123°25'30", in sec.33, T.17 S., R.6 W., Lane County, on left bank 0.2 mi (0.3 km) upstream from Southern Pacific Railroad bridge, 0.8 mi (1.3 km) downstream from Noti Creek, 1.3 mi (2.1 km) southeast of Noti, and at mile 37.4 (60.2 km).

DRAINAGE AREA.--89.3 mi² (231.3 km²).

PERIOD OF RECORD.--October 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 389.05 ft (118.582 m) above mean sea level (levels by U.S. Weather Bureau). Prior to Nov. 6, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--39 years, 243 ft³/s (6.88 m³/s), 36.95 in/yr (939 mm/yr), 176,100 acre-ft/yr (217 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,440 ft³/s (182 m³/s) Jan. 15, gage height, 19.64 ft (5.986 m); minimum, 9.4 ft³/s (0.27 m³/s) Aug. 6, 12, 18, Sept. 12-30.

Period of record: Maximum discharge, 6,990 ft³/s (198 m³/s) Dec. 22, 1955, gage height, 20.17 ft (6.148 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 7, 1973.

REMARKS.--Records good. Slight regulation caused by logpond above Noti. No diversion above station.

REVISIONS (WATER YEARS).--WSP 1318: 1936(M). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	77	823	726	1,010	1,480	1,070	149	74	34	12	12
2	13	51	604	599	940	1,350	967	150	70	34	11	12
3	13	55	512	527	711	1,130	961	154	68	33	11	11
4	13	113	456	469	648	894	846	137	73	29	11	10
5	13	194	414	414	596	819	707	135	108	30	10	11
6	14	174	399	369	521	942	611	132	83	35	10	11
7	18	180	1,070	334	470	891	538	136	74	32	10	11
8	19	192	1,090	311	430	715	482	121	62	38	10	11
9	16	581	697	296	395	604	479	121	60	56	10	10
10	15	400	534	274	374	531	435	130	59	52	10	11
11	15	417	471	259	353	518	404	127	55	44	10	11
12	14	669	571	288	334	666	380	123	59	40	9.7	10
13	14	942	1,300	634	314	805	356	114	51	35	10	9.7
14	14	1,010	1,370	1,140	336	1,200	327	125	50	30	11	9.7
15	14	1,460	1,250	4,290	337	1,730	306	125	53	28	11	9.4
16	14	2,800	1,290	5,760	760	1,170	287	137	53	25	10	9.4
17	14	1,230	1,990	4,240	1,070	868	269	138	53	36	10	9.4
18	14	624	1,750	2,670	957	684	260	122	58	43	10	9.4
19	14	410	1,170	2,130	2,080	581	246	113	45	38	12	9.4
20	15	508	1,210	1,440	1,320	512	234	121	47	32	13	9.4
21	21	979	2,850	1,090	978	458	223	114	45	25	13	9.4
22	30	967	2,010	873	865	410	211	98	43	23	11	9.4
23	24	691	1,380	730	784	382	214	96	44	20	11	9.4
24	23	691	1,110	630	670	354	220	97	42	19	11	9.4
25	34	762	1,020	585	609	341	199	103	41	18	11	9.4
26	28	903	865	564	686	321	181	89	45	17	10	9.4
27	23	749	898	516	973	335	183	86	48	16	10	9.4
28	21	844	1,220	493	1,360	817	176	84	47	16	10	9.4
29	24	1,320	1,240	470	------	1,050	171	79	43	14	10	9.7
30	23	1,180	1,140	482	------	1,320	167	81	38	13	10	9.4
31	30	------	903	648	------	1,440	------	88	------	12	11	------
TOTAL	571	21,233	33,607	34,251	20,881	25,318	12,110	3,625	1,691	917	329.7	301.1
MEAN	18.4	708	1,084	1,105	746	817	404	117	56.4	29.6	10.6	10.0
MAX	34	2,800	2,850	5,760	2,080	1,730	1,070	154	108	56	13	12
MIN	13	51	399	259	314	321	167	79	38	12	9.7	9.4
CFSM	.21	7.93	12.1	12.4	8.35	9.15	4.52	1.31	.63	.33	.12	.11
IN.	.24	8.85	14.00	14.27	8.70	10.55	5.04	1.51	.70	.38	.14	.13
AC-FT	1,130	42,120	66,660	67,940	41,420	50,220	24,020	7,190	3,350	1,820	654	597

CAL YR 1973 TOTAL 88,971.3 MEAN 244 MAX 2,850 MIN 2.5 CFSM 2.73 IN 37.06 AC-FT 176,500
WTR YR 1974 TOTAL 154,834.8 MEAN 424 MAX 5,760 MIN 9.4 CFSM 4.75 IN 64.50 AC-FT 307,100

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0730	15.73	3,210	2-19	1430	14.15	2,360
12-17	2030	13.27	2,080	2-28	2300	12.05	1,720
12-21	1230	15.78	3,250	3-15	0700	12.58	1,870
1-15	1830	19.64	6,440	3-31	0100	12.18	1,750

14167000 COYOTE CREEK NEAR CROW, OREG.

LOCATION.--Lat 44°01'19", long 123°15'17", in SW¼NE¼ sec.11, T.18 S., R.5 W., Lane County, on right bank 1.0 mi (1.6 km) downstream from Spencer Creek, 4.3 mi (6.9 km) northeast of Crow, and at mile 3.8 (6.1 km).

DRAINAGE AREA.--95.1 mi² (246.3 km²).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 374.0 ft (114.00 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 31, 1940, nonrecording gage near same site at different datums.

AVERAGE DISCHARGE.--34 years, 186 ft³/s (5.27 m³/s), 26.56 in/yr (675 mm/yr), 134,800 acre-ft/yr (166 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,090 ft³/s (229 m³/s) Jan. 15, gage height, 13.77 ft (4.197 m); no flow Aug. 26 to Sept. 30.

Period of record: Maximum discharge, 10,600 ft³/s (300 m³/s) Feb. 10, 1961, gage height, 14.43 ft (4.398 m), from rating curve extended above 4,700 ft³/s (133 m³/s); no flow at times most years.

REMARKS.--Records good. No regulation. Several small diversions for irrigation above station.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	16	918	442	672	1.160	1.100	55	18	5.1	.04	
2	.15	22	622	314	644	1.040	969	51	17	4.4	.15	
3	.18	16	440	252	481	744	798	48	17	4.0	.11	
4	.09	18	360	207	441	544	637	44	13	3.5	.05	
5	.08	34	287	176	367	496	496	41	12	3.8	.03	
6	.09	54	275	148	281	736	386	38	19	3.8	.03	
7	.07	97	822	128	241	658	305	37	17	3.8	.03	
8	.07	145	858	120	214	481	247	34	15	4.7	.03	
9	.09	391	622	110	193	355	296	34	15	5.8	.04	
10	.11	411	398	110	174	278	249	32	15	5.4	.04	
11	.12	530	330	110	159	290	210	32	14	5.8	.04	
12	.18	836	469	150	147	625	187	34	10	5.8	.04	
13	.20	792	1.280	598	136	784	160	30	12	5.4	.04	
14	.15	710	1.570	1.220	148	1.480	145	29	11	5.4	.03	
15	.15	1.020	1.290	5.650	149	1.650	130	30	11	4.7	.03	
16	.15	1.660	1.070	5.270	448	981	124	32	12	4.4	.02	
17	.15	1.090	1.440	2.680	698	692	111	36	11	4.7	.02	
18	.15	550	1.230	1.710	783	464	102	34	11	4.0	.01	
19	.15	355	800	1.530	1.280	352	92	32	11	4.7	.01	
20	.15	464	963	1.040	1.010	269	87	29	9.5	4.7	.01	
21	1.2	996	1.260	716	729	220	79	27	9.5	4.7	.02	
22	2.1	1.040	939	490	651	187	72	26	9.0	4.4	.02	
23	2.1	740	699	356	548	164	77	25	8.5	4.0	.02	
24	2.3	643	553	287	447	144	112	25	8.5	3.3	.01	
25	7.7	678	555	286	394	136	113	24	8.5	.26	.01	
26	9.5	749	477	257	604	124	87	24	8.5	.07	0	
27	16	637	505	221	890	144	74	21	8.5	.07	0	
28	12	695	650	203	1.300	676	69	20	8.1	.04	0	
29	12	1.550	833	182	------	930	63	19	7.7	.07	0	
30	11	1.370	765	171	------	1.870	58	19	7.3	.11	0	
31	12	------	611	313	------	1.590	------	19	------	.05	0	------
TOTAL	90.53	18.409	23.871	25.447	14.229	20.264	7.635	981	354.6	110.97	.88	0
MEAN	2.92	614	770	821	508	654	255	31.6	11.8	3.58	.028	0
MAX	16	1.660	1.570	5.650	1.300	1.870	1.100	55	19	5.8	.15	0
MIN	.07	16	275	110	136	124	58	19	7.3	.04	0	0
CFSM	.03	6.46	8.10	8.63	5.34	6.88	2.68	.33	.12	.04	.0003	0
IN.	.04	7.20	9.34	9.95	5.57	7.93	2.99	.38	.14	.04	0	0
AC-FT	180	36.510	47.350	50.470	28.220	40.190	15.140	1.950	703	220	1.7	0

CAL YR 1973 TOTAL 63.041.13 MEAN 173 MAX 1.660 MIN 0 CFSM 1.82 IN 24.66 AC-FT 125.000
WTR YR 1974 TOTAL 111.392.98 MEAN 305 MAX 5.650 MIN 0 CFSM 3.21 IN 43.57 AC-FT 220.900

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	1200	10.84	1,780	1-15	1500	13.77	8,090
11-29	0730	10.46	1,660	3-14	1830	10.81	2,040
12-14	0830	10.45	1,720	3-30	1500	11.48	2,790

14168000 FERN RIDGE LAKE NEAR ELMIRA, OREG.

LOCATION.--Lat 44°07'15", long 123°18'00", near center of sec.4, T.17 S., R.5 W., Lane County, in control house at spillway section of dam across Long Tom River and Coyote Creek, 4.5 mi (7.2 km) northeast of Elmira, and at mile 25.7 (41.4 km).

DRAINAGE AREA.--252 mi² (653 km²), not including Amazon Creek basin (see REMARKS).

PERIOD OF RECORD.--October 1941 to current year. Prior to October 1971, published as Fern Ridge Reservoir near Elmira.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 108,000 acre-ft (133 hm³) Jan. 19, elevation, 374.22 ft (114.062 m); minimum, 4,820 acre-ft (5.94 hm³) Dec. 11, elevation, 351.30 ft (107.076 m).

Period of record: Maximum contents, 124,500 acre-ft (154 hm³) Dec. 27, 1955, elevation, 375.83 ft (114.553 m); minimum since first filling in 1942, 163 acre-ft (201,000 m³) Nov. 11, 1950, elevation, 344.00 ft (104.851 m).

REMARKS.--Reservoir is formed by earth-fill dam with concrete outlet and spillway, completed in 1941 by Corps of Engineers; storage began Nov. 13, 1941. Total capacity, 116,800 acre-ft (144 hm³) at elevation 375.1 ft (114.33 m), maximum pool elevation. Usable capacity, 101,100 acre-ft (125 hm³) between elevations 340.0 ft (103.63 m), sill of outlet gate, and 373.5 ft (113.84 m), normal maximum operating pool level. Reservoir used for flood control and improvement of navigation. Since November 1951, most of flow of Amazon Creek has been diverted in SE¼ sec.29, T.17 S., R.4 W., and discharged into Fern Ridge Reservoir; drainage area at point of diversion, 21.3 mi² (55.2 km²).

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

349	2,270	356	12,440	364	37,490	372	87,720
350	3,250	358	17,020	366	46,940	374	105,800
352	5,730	360	22,670	368	58,320	376	126,300
354	8,760	362	29,460	370	71,900		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70,150	25,210	12,910	7,000	27,580	43,440	90,370	100,900	102,300	99,220	93,970	86,630
2	70,000	23,520	9,790	6,360	25,280	44,410	88,910	100,900	102,200	98,940	93,790	86,460
3	70,000	21,870	8,220	5,420	22,300	45,260	87,980	100,900	102,200	98,850	93,520	86,120
4	69,860	21,090	7,760	5,020	19,710	45,960	87,300	100,800	102,500	98,480	93,170	86,040
5	69,720	20,480	7,630	5,950	18,820	47,670	86,040	100,800	102,500	98,390	92,900	85,870
6	69,430	19,650	8,140	6,160	18,850	49,160	86,040	100,800	102,400	98,300	92,640	85,540
7	68,150	18,580	11,830	6,230	19,990	51,350	87,130	101,000	102,400	98,110	92,200	85,380
8	66,540	18,600	13,710	6,650	21,660	54,330	89,000	101,100	102,300	98,300	91,850	85,210
9	64,690	18,150	12,620	7,170	23,040	55,100	90,890	101,300	102,200	98,110	91,500	84,960
10	63,010	17,180	11,270	7,370	24,420	54,640	92,640	101,400	102,200	98,020	91,160	84,630
11	61,310	16,500	5,870	7,380	25,610	55,040	93,700	101,600	102,100	97,930	90,980	84,130
12	59,580	17,800	8,120	7,950	26,840	57,400	94,680	101,800	102,000	97,470	90,720	83,890
13	57,700	18,310	11,810	10,460	28,000	58,380	95,660	102,000	102,000	97,380	90,460	83,720
14	56,060	18,660	14,400	15,330	29,130	63,340	96,640	102,100	101,700	97,290	90,290	83,560
15	54,220	24,540	14,630	47,300	30,930	66,890	97,660	102,700	101,700	97,020	90,030	83,480
16	52,480	34,950	17,640	84,550	33,520	66,690	98,480	102,900	101,600	97,110	89,770	83,150
17	50,740	38,900	20,860	101,800	34,740	66,820	99,120	103,000	101,400	97,020	89,430	82,830
18	48,940	35,570	21,480	106,900	36,670	67,380	99,400	102,900	101,100	96,930	89,340	82,740
19	47,410	30,660	19,680	107,700	38,280	68,360	99,960	102,800	101,000	96,840	89,170	82,660
20	45,560	27,970	22,360	104,700	36,850	69,930	100,100	102,700	100,800	96,750	89,260	82,340
21	44,220	26,910	29,830	99,030	36,800	70,440	100,500	102,600	100,500	96,480	89,170	82,100
22	42,430	25,240	33,600	91,940	37,930	71,750	100,700	102,400	100,500	96,390	88,830	81,850
23	40,530	22,540	31,850	83,720	38,860	72,490	101,100	102,400	100,100	96,120	88,570	81,690
24	38,810	19,370	28,580	75,500	39,710	73,460	101,000	102,400	100,100	95,660	88,570	81,530
25	37,060	16,350	24,610	66,890	40,250	74,590	100,500	102,400	100,000	95,480	88,400	81,210
26	35,360	12,960	20,360	58,450	41,360	75,650	100,200	102,300	99,960	95,400	87,980	80,890
27	33,680	9,510	16,300	50,580	41,080	77,580	100,200	102,300	99,860	95,130	87,810	80,570
28	31,890	8,630	13,040	43,920	42,390	79,690	100,300	102,300	99,580	94,860	87,640	80,250
29	30,170	12,440	11,460	37,150	------	80,810	100,700	102,200	99,400	94,680	87,220	80,250
30	28,400	14,240	8,190	32,160	------	87,810	100,800	102,200	99,310	94,590	86,960	79,930
31	26,950	------	7,360	29,350	------	91,070	------	102,200	------	94,320	86,880	------
MAX	70,150	38,900	33,600	107,700	42,390	91,070	101,100	103,000	102,500	99,220	93,970	86,630
MIN	26,950	8,630	5,870	5,820	18,820	43,440	86,040	100,800	99,310	94,320	86,880	79,930
(†)	361.30	356.84	353.12	361.97	365.08	372.39	373.47	373.62	373.31	372.76	371.90	371.05
(‡)	-43,340	-12,710	-6,880	+21,990	+13,040	+48,680	+9,730	+1,400	-2,890	-4,990	-7,440	-6,950

WTR YR 1974 MAX 107,700 MIN 5,820 AC-FT‡ +9,640

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14169000 LONG TOM RIVER NEAR ALVADORE, OREG.

LOCATION.—Lat 44°07'25", long 123°17'55", in SW¼NE¼ sec.4, T.17 S., R.5 W., Lane County, on left bank 0.2 mi (0.3 km) downstream from Fern Ridge Dam, 1.7 mi (2.7 km) west of Alvadore, and at mile 25.5 (41.0 km).

DRAINAGE AREA.—252 mi² (653 km²), not including Amazon Creek basin.

PERIOD OF RECORD.--August 1939 to current year. Prior to October 1943, published as "at Smithfield," and October 1943 to September 1959, as "below Fern Ridge Dam, near Smithfield."

GAGE.--Water-stage recorder and masonry control. Datum of gage is 332.00 ft (101.194 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 21, 1939, nonrecording gage and Sept. 21, 1939, to Sept. 30, 1943, water-stage recorder at site 2.5 mi (4.0 km) downstream at datum 11.09 ft (3.380 m) lower.

AVERAGE DISCHARGE.--35 years, 555 ft³/s (15.7 m³/s), 402,100 acre-ft/yr (496 hm³/yr), adjusted for diversion to Coyote Creek since 1943.

EXTREMES.--Current year: Maximum discharge, 5,510 ft³/s (156 m³/s) Jan. 23; minimum daily, 27 ft³/s (0.76 m³/s) July 11.
Period of record: Maximum discharge, 11,500 ft³/s (326 m³/s) Jan. 1, 1943, gage height, 15.12 ft (4.609 m), site and datum then in use; minimum daily, 2 ft³/s (0.057 m³/s) Aug. 7, 1941.

REMARKS.--Records good. Flow regulated since 1941 by Fern Ridge Lake (see station 14168000). Several small diversions for irrigation above station. Records include diversion to Coyote Creek Channel. Point of diversion is 500 ft (152 m) upstream and point of return, 2.3 mi (3.7 km) downstream. Discharge not adjusted for storage or release from Fern Ridge Lake as evaporation from reservoir at times exceeds natural flow and diversions, and beginning in November 1951, most of flow of Amazon Creek has been diverted into Fern Ridge Lake.

REVISIONS (WATER YEARS).--WSP 1248: 1940-41, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	919	3,040	1,720	3,040	3,110	3,530	166	45	55	63	60
2	66	919	2,990	1,420	3,030	2,780	3,510	162	45	58	63	61
3	66	927	2,010	1,150	3,020	2,120	2,720	186	45	61	63	61
4	66	935	1,250	861	2,690	1,550	2,320	197	45	62	63	61
5	66	927	998	639	1,780	1,200	2,220	197	45	62	63	61
6	271	919	870	547	1,030	1,490	1,220	111	45	62	63	61
7	606	919	1,130	520	368	987	522	57	45	62	63	60
8	823	927	1,590	382	56	130	250	57	45	61	63	61
9	911	1,440	2,240	266	56	914	104	56	45	56	63	61
10	895	1,770	2,490	332	56	1,320	104	56	46	33	63	61
11	903	1,770	2,390	398	56	1,060	104	51	45	27	63	61
12	911	1,760	1,240	418	57	1,140	107	47	45	39	61	61
13	895	2,140	1,830	741	57	1,750	106	46	46	44	61	60
14	911	2,500	2,740	1,580	57	2,200	106	46	46	44	61	60
15	903	1,410	3,210	640	57	2,630	108	46	46	44	61	60
16	911	348	2,450	71	591	3,060	108	46	46	44	63	60
17	911	1,900	2,750	1,480	1,600	2,170	108	136	47	44	61	61
18	927	3,680	3,550	3,700	2,030	1,300	172	177	48	45	61	61
19	919	3,700	3,840	4,600	2,880	651	192	181	48	45	61	61
20	919	3,070	2,730	4,910	4,180	311	195	181	48	45	61	61
21	919	3,250	1,120	5,170	2,630	307	202	139	49	45	61	61
22	919	3,510	2,120	5,380	1,660	486	202	119	49	45	60	61
23	919	3,510	3,640	5,430	1,290	351	308	96	49	45	60	61
24	919	3,510	4,030	5,440	1,090	96	569	83	53	55	60	61
25	919	3,520	4,020	5,430	1,100	96	525	83	55	61	61	61
26	919	3,750	4,030	5,400	1,600	96	368	87	55	61	61	61
27	919	3,690	4,000	5,070	2,710	67	262	63	55	61	60	61
28	927	2,800	3,910	4,360	3,090	1,430	187	51	55	61	60	61
29	919	2,360	3,680	3,970	------	2,360	163	47	55	61	60	61
30	911	2,610	3,760	3,370	------	1,850	166	43	55	61	60	61
31	919	------	2,520	3,020	------	2,700	------	45	------	61	60	------
TOTAL	23,055	65,390	82,168	78,415	41,861	41,712	20,758	3,058	1,446	1,610	1,907	1,824
MEAN	744	2,180	2,651	2,530	1,495	1,346	692	98.6	48.2	51.9	61.5	60.8
MAX	927	3,750	4,030	5,440	4,180	3,110	3,530	197	55	62	63	61
MIN	66	348	870	71	56	67	104	43	45	27	60	60
AC-FT	45,730	129,700	163,000	155,500	83,030	82,740	41,170	6,070	2,870	3,190	3,780	3,620

CAL YR 1973 TOTAL 207,322 MEAN 568 MAX 4,030 MIN 23 AC-FT 411,200
WTR YR 1974 TOTAL 363,204 MEAN 995 MAX 5,440 MIN 27 AC-FT 720,400

14169300 AMAZON CREEK AT EUGENE, OREG.

LOCATION.--Lat 44°00'45", long 123°04'35", in SW¼SE¼ sec.8, T.18 S., R.3 W., Lane County, on right bank 145 ft (44 m) south of intersection of 39th Street and E. Amazon Drive in Eugene, and at mile 20.3 (32.7 km).

DRAINAGE AREA.--3.35 mi² (8.68 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 442.33 ft (134.822 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 5.30 ft³/s (0.150 m³/s), 21.48 in/yr (546 mm/yr), 3,840 acre-ft/yr (4.73 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 429 ft³/s (12.1 m³/s) Jan. 15, gage height, 6.58 ft (2.006 m); minimum, 0.07 ft³/s (0.002 m³/s) Oct. 13-19.
Period of record: Maximum discharge, 527 ft³/s (14.9 m³/s) Jan. 19, 1964, gage height, 7.29 ft (2.222 m); no flow at times.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.49	15	6.2	21	24	26	1.4	.28	.32	.36	.20
2	.09	.25	9.0	4.9	11	16	23	1.3	.28	.25	.44	.23
3	.09	1.6	8.5	3.8	8.5	10	16	1.2	.32	.32	.36	.23
4	.09	18	8.0	3.0	17	7.7	11	1.0	.60	.25	.36	.28
5	.09	15	12	2.5	9.4	20	8.8	.93	1.4	.60	.40	.20
6	.23	15	36	2.0	6.7	21	7.2	.74	.49	.25	.40	.23
7	.11	4.5	45	1.7	5.1	11	5.3	.66	.32	.23	.36	.18
8	.13	33	13	1.5	4.3	7.7	7.4	.66	.32	.83	.40	.28
9	.13	20	8.2	1.3	3.8	6.2	11	.66	.32	.25	.28	.54
10	.09	25	6.8	1.0	3.3	6.2	6.9	.60	.28	.23	.25	.15
11	.15	34	7.4	1.0	3.0	6.9	6.0	1.5	.28	.28	.25	.11
12	.15	42	39	5.8	2.7	26	4.5	2.3	.32	.23	.32	.11
13	.11	23	49	30	2.9	21	3.8	.74	.32	.23	.28	.15
14	.09	24	45	73	3.5	89	3.2	.83	.32	.25	.25	.18
15	.11	51	17	273	4.9	28	2.9	.74	.32	.36	.40	.18
16	.07	37	34	99	22	16	2.5	.93	.28	.60	.44	.23
17	.09	15	45	40	12	11	2.2	.83	.28	.40	.44	.23
18	.09	8.8	16	46	45	8.0	2.0	.66	.28	.28	2.9	.18
19	.40	5.3	15	26	29	6.2	1.9	.54	.25	.32	.54	.18
20	.23	36	27	13	14	4.9	1.8	.49	.32	.23	.23	.20
21	3.5	36	24	8.8	19	4.2	1.6	.54	.32	.20	.20	.20
22	.25	20	12	6.7	17	3.5	1.5	.74	.28	.32	.20	.20
23	.54	22	9.1	5.5	11	3.0	3.0	.40	.28	.28	.23	.20
24	.60	16	10	5.1	8.0	2.7	6.4	.49	.32	.23	.23	.23
25	.28	29	8.5	6.9	10	2.6	6.0	.40	.44	.36	.23	.25
26	.18	16	7.2	4.9	52	2.2	2.9	.36	.28	.28	.25	.23
27	.13	11	15	4.7	29	6.2	2.2	.32	.28	.25	.25	.23
28	.93	66	14	3.8	36	34	1.9	.32	.28	.23	.25	.18
29	.18	41	22	3.3	------	26	1.7	.32	.25	.28	.25	.20
30	.18	22	11	2.9	------	100	1.6	.32	.23	.36	.28	.20
31	2.6	------	9.1	16	------	28	------	.28	------	.36	.18	------
TOTAL	12.02	687.94	597.0	703.3	411.1	559.2	182.2	23.20	10.54	9.86	12.21	6.39
MEAN	.39	22.9	19.3	22.7	14.7	18.0	6.07	.75	.35	.32	.39	.21
MAX	3.5	66	49	273	52	100	26	2.3	1.4	.83	2.9	.54
MIN	.07	.25	6.0	1.0	2.7	2.2	1.5	.28	.23	.20	.18	.11
CFSM	.12	6.84	5.76	6.78	4.39	5.37	1.81	.22	.10	.10	.12	.06
IN.	.13	7.64	6.63	7.81	4.57	6.21	2.02	.26	.12	.11	.14	.07
AC-FT	24	1,360	1,180	1,390	815	1,110	361	46	21	20	24	13

CAL YR 1973 TOTAL 1,874.66 MEAN 5.14 MAX 66 MIN .07 CFSM 1.53 IN 20.82 AC-FT 3,720
WTR YR 1974 TOTAL 3,214.96 MEAN 8.81 MAX 273 MIN .07 CFSM 2.63 IN 35.70 AC-FT 6,380

PEAK DISCHARGE (BASE, 125 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-28	2000	5.10	167	3-14	1000	5.07	163
12-13	2245	4.99	152	3-30	0700	6.28	366
1-15	0700	6.58	429				

14170000 LONG TOM RIVER AT MONROE, OREG.

LOCATION.--Lat 44°18'30", long 123°17'45", in NE¼ sec.33, T.14 S., R.5 W., Benton County, on left bank in canalized river channel at Monroe, 110 ft (34 m) upstream from bridge on State Highway 99W, 0.1 mi (0.2 km) downstream from Shafer Creek, and at mile 6.8 (10.9 km).

DRAINAGE AREA.--391 mi² (1,013 km²).

PERIOD OF RECORD.--November 1920 to July 1921, October 1921 to April 1926, November 1926 to May 1927, October 1927 to current year. Prior to October 1930, published as "near Monroe."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 270.57 ft (82.470 m) above mean sea level. Prior to Nov. 24, 1944, nonrecording gage at various sites ranging from present site to 1.5 mi (2.4 km) downstream at different datums.

AVERAGE DISCHARGE.--51 years (1921-25, 1927-74), 792 ft³/s (22.4 m³/s), 573,800 acre-ft/yr (707 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 ft³/s (297 m³/s) Jan. 15, 16, gage height, 10.42 ft (3.176 m); minimum, 28 ft³/s (0.79 m³/s) July 12, 23, 24.

Period of record: Maximum discharge, 19,300 ft³/s (547 m³/s) Jan. 2, 1943, gage height, 17.14 ft (5.224 m), site and datum then in use, from graph based on gage readings, includes some overflow from Willamette River near Junction City; no flow Oct. 20-22, 1944 (water filling pool at gage); minimum observed prior to regulation, 7 ft³/s (0.20 m³/s) Sept. 29, Oct. 1, 1939.

REMARKS.--Records good. Flow regulated since 1941 by Fern Ridge Lake (see station 14168000). Several small diversions above station.

REVISIONS (WATER YEARS).--WSP 654: Drainage area. WSP 1248: 1923, 1927, 1928(M). WSP 1288: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	899	4,080	2,580	4,540	4,680	4,800	284	93	53	38	53
2	72	899	3,740	1,990	4,010	4,580	4,740	273	93	50	43	53
3	68	899	3,060	1,730	3,770	3,410	4,020	278	90	53	43	53
4	68	942	1,880	1,310	3,650	2,480	3,150	294	90	53	43	53
5	65	985	1,510	1,220	2,820	2,250	3,100	289	97	59	43	50
6	142	1,010	1,460	1,100	1,650	2,540	2,090	256	97	62	40	50
7	511	995	3,150	950	1,030	2,120	1,020	148	93	56	40	50
8	743	1,070	2,690	850	390	678	743	137	82	56	40	50
9	879	1,640	2,940	750	360	1,080	519	131	79	65	40	53
10	869	2,110	3,180	900	338	1,780	448	137	75	56	40	50
11	869	2,300	3,100	1,000	322	1,700	405	126	68	35	43	50
12	879	2,750	2,670	1,120	311	2,390	383	120	65	28	43	50
13	869	3,220	3,560	1,760	294	2,850	354	109	62	38	40	50
14	869	3,860	4,760	3,380	354	4,580	332	104	62	38	43	53
15	869	4,760	4,440	8,640	371	4,400	322	109	68	35	43	50
16	879	3,300	4,940	8,370	1,650	4,150	311	120	72	30	43	48
17	879	2,510	4,980	4,880	2,700	3,380	305	175	62	38	43	45
18	889	4,060	5,280	5,990	3,680	2,040	316	278	56	43	45	48
19	899	4,340	4,820	6,310	5,020	1,350	360	273	56	43	50	50
20	879	4,100	5,280	6,120	5,280	715	343	267	56	40	45	48
21	899	4,880	5,350	5,920	4,130	650	349	245	56	38	48	50
22	889	4,660	3,520	6,070	2,750	734	343	202	53	35	50	48
23	899	4,320	4,700	6,030	2,190	819	398	191	53	30	45	48
24	899	4,420	5,080	6,030	1,700	349	687	158	48	28	45	45
25	899	4,540	5,080	6,010	1,650	338	753	153	50	43	45	45
26	889	4,560	4,900	5,960	2,370	322	544	153	56	48	48	50
27	889	4,840	5,110	5,740	4,150	338	412	142	53	45	48	50
28	889	4,040	5,190	5,110	5,190	2,500	332	100	56	43	48	50
29	889	4,640	5,300	4,420	-------	3,810	289	100	56	45	48	53
30	889	3,790	4,700	4,130	-------	4,580	284	93	56	38	48	53
31	899	-------	3,830	4,100	-------	3,700	-------	90	-------	38	50	-------
TOTAL	22,094	91,339	124,280	120,470	66,670	71,293	32,452	5,535	2,053	1,362	1,371	1,499
MEAN	713	3,045	4,009	3,886	2,381	2,300	1,082	179	68.4	43.9	44.2	50.0
MAX	899	4,880	5,350	8,640	5,280	4,680	4,800	294	97	65	50	53
MIN	65	899	1,460	750	294	322	284	90	48	28	38	45
AC-FT	43,820	181,200	246,500	239,000	132,200	141,400	64,370	10,980	4,070	2,700	2,720	2,970

CAL YR 1973 TOTAL 307,404 MEAN 842 MAX 5,350 MIN 23 AC-FT 609,700
WTR YR 1974 TOTAL 540,418 MEAN 1,481 MAX 8,640 MIN 28 AC-FT 1,072,000

14171000 MARYS RIVER NEAR PHILOMATH, OREG.

LOCATION.--Lat 44°31'35", long 123°20'00", in NE¼SE¼ sec.18, T.12 S., R.5 W., Benton County, on left bank 50 ft (15 m) downstream from bridge on Bellfountain Road, 0.6 mi (1.0 km) downstream from Newton Creek, 2.0 mi (3.2 km) southeast of Philomath, and at mile 9.4 (15.1 km).

DRAINAGE AREA.--159 mi² (412 km²), including drainage area of Evergreen Creek above Bellfountain Road, 1.4 mi (2.3 km) south of station.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 224.01 ft (68.278 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1961, nonrecording gage at bridge 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--34 years, 477 ft³/s (13.5 m³/s), 40.74 in/yr (1,035 mm/yr), 345,600 acre-ft/yr (426 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,100 ft³/s (314 m³/s) Jan. 15, gage height, 20.91 ft (6.373 m); minimum, 5.3 ft³/s (0.15 m³/s) Sept. 24.

Period of record: Maximum discharge, 13,600 ft³/s (385 m³/s) Dec. 22, 1964, gage height, 20.72 ft (6.315 m); maximum gage height, 20.91 ft (6.373 m) Jan. 15, 1974; minimum discharge, 0.60 ft³/s (0.017 m³/s) Aug. 23, 1967.

REMARKS.--Records fair. Records include flow of Evergreen Creek at Bellfountain Road crossing 1.4 mi (2.3 km) south of station, with which overflow from Marys River may at times be mingled. Slight regulation by small storage reservoir on Rock Creek from which municipal supply is diverted for city of Corvallis. Other small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1935: 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	254	1,440	1,300	2,190	3,360	1,610	236	111	51	20	16
2	14	182	1,160	1,090	1,800	3,350	1,760	225	106	51	19	17
3	13	108	1,040	931	1,440	2,330	1,680	219	102	49	18	16
4	13	242	917	819	1,450	1,720	1,480	206	114	49	20	16
5	13	392	813	713	1,330	1,880	1,300	194	153	47	17	16
6	16	324	873	623	1,150	2,360	1,160	183	156	48	16	14
7	32	292	1,610	563	1,020	1,900	1,030	176	138	47	18	13
8	27	358	1,420	519	896	1,420	918	165	126	53	18	13
9	32	1,770	1,180	481	796	1,170	928	159	115	94	18	13
10	26	1,410	989	448	710	1,020	848	164	107	90	16	16
11	22	1,290	933	418	636	968	882	173	100	70	18	13
12	21	1,920	1,490	681	586	1,220	950	185	95	60	16	13
13	20	2,740	3,390	2,800	544	1,450	876	161	91	54	17	14
14	19	3,210	2,780	3,030	596	2,230	782	183	89	48	19	13
15	19	5,380	2,270	8,900	660	2,280	696	219	88	44	18	12
16	19	6,840	2,680	9,400	1,260	1,740	622	231	86	42	17	11
17	18	3,880	3,450	6,580	1,440	1,390	558	236	80	49	18	11
18	18	2,030	2,710	4,520	1,580	1,160	500	225	75	53	17	10
19	18	1,310	1,990	3,380	2,620	998	461	213	72	54	17	8.5
20	18	1,570	2,790	2,320	2,170	868	437	195	71	48	19	8.5
21	28	2,460	4,030	1,650	1,740	762	410	179	69	43	19	9.0
22	30	2,390	2,790	1,340	1,480	678	383	167	66	38	18	9.0
23	36	1,970	2,190	1,200	1,270	610	365	158	66	35	16	7.8
24	41	1,950	1,810	1,110	1,090	546	353	156	64	32	15	7.2
25	51	1,990	1,770	1,110	994	514	324	153	62	30	15	6.0
26	47	2,130	1,490	1,280	1,300	473	306	142	74	28	13	6.5
27	40	1,920	1,550	1,300	1,520	528	291	134	76	27	11	7.8
28	38	2,230	2,010	1,350	3,360	1,490	276	127	72	27	10	7.8
29	51	2,490	2,360	1,260	------	1,540	263	123	64	26	9.8	8.5
30	51	1,870	2,000	1,180	------	2,070	248	120	57	22	12	8.0
31	64	------	1,590	1,670	------	1,870	------	116	------	22	13	------
TOTAL	868	56,902	59,515	63,966	37,628	45,895	22,697	5,523	2,745	1,431	507.8	341.6
MEAN	28.0	1,897	1,920	2,063	1,344	1,480	757	178	91.5	46.2	16.4	11.4
MAX	64	6,840	4,030	9,400	3,360	3,360	1,760	236	156	94	20	17
MIN	13	108	813	418	544	473	248	116	57	22	9.8	6.0
CFSM	.18	11.9	12.1	13.0	8.45	9.31	4.76	1.12	.58	.29	.10	.07
IN.	.20	13.31	13.92	14.97	8.80	10.74	5.31	1.29	.64	.33	.12	.08
AC-FT	1,720	112,900	118,000	126,900	74,640	91,030	45,020	10,950	5,440	2,840	1,010	678

CAL YR 1973 TOTAL 176,007.8 MEAN 482 MAX 6,840 MIN 4.4 CFSM 3.03 IN 41.18 AC-FT 349,100
WTR YR 1974 TOTAL 298,019.4 MEAN 816 MAX 9,400 MIN 6.0 CFSM 5.13 IN 69.73 AC-FT 591,100

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2000	20.88	10,800	12-21	0130	19.57	4,870
12-13	1030	18.04	3,670	1-15	0700	20.91	11,100
12-17	1530	18.27	3,790	2-28	1130	18.51	3,940

14172000 CALAPOOIA RIVER AT HOLLEY, OREG.

LOCATION.--Lat 44°21'05", long 122°47'10", in SE¼ sec.15, T.14 S., R.1 W., Linn County, on right bank 200 ft (61 m) downstream from bridge on State Highway 228, 0.3 mi (0.5 km) southwest of Holley, 5.0 mi (8.0 km) upstream from Brush Creek, and at mile 45.4 (73.0 km).

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--September 1935 to current year. Prior to October 1963, published as Calapooya River at Holley.

GAGE.--Water-stage recorder. Datum of gage is 527.58 ft (160.806 m) above mean sea level. Prior to Oct. 7, 1963, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years, 449 ft³/s (12.7 m³/s), 58.07 in/yr (1,475 mm/yr), 325,300 acre-ft/yr (401 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,320 ft³/s (207 m³/s) Jan. 15, gage height, 9.03 ft (2.752 m); minimum, 17 ft³/s (0.481 m³/s) Sept. 26.

Period of record: Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1964, gage height, 14.60 ft (4.450 m); maximum gage height, 15.30 ft (4.663 m) Dec. 22, 1964 (backwater from debris); minimum discharge observed, 13 ft³/s (0.368 m³/s) Sept. 8, 1940.

REMARKS.--Records excellent. Slight regulation at times during low-water periods by small dam upstream. Diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1044: 1943. WSP 1218: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	621	1,660	994	1,990	1,160	1,780	399	206	90	39	27
2	55	318	1,320	808	1,400	1,120	1,570	351	221	89	38	26
3	52	230	1,150	672	1,170	929	1,330	322	218	84	37	24
4	50	315	994	583	1,390	861	1,200	311	322	80	37	24
5	47	399	847	495	1,250	1,420	1,060	340	795	84	35	24
6	51	627	922	441	1,020	1,750	1,040	370	505	84	35	24
7	55	588	2,540	394	847	1,230	929	355	386	79	34	23
8	47	1,090	1,790	359	732	972	834	340	315	84	34	22
9	45	1,960	1,230	325	672	808	654	318	277	99	34	26
10	42	2,100	1,010	297	627	732	801	287	260	84	33	30
11	42	1,830	936	280	577	732	1,110	308	256	92	32	26
12	46	2,380	1,040	362	530	874	1,220	424	250	77	32	24
13	45	2,020	1,330	1,020	463	827	936	333	234	73	33	22
14	41	1,940	1,330	1,720	500	1,370	776	311	218	68	34	22
15	40	2,690	1,310	4,800	530	2,160	690	325	200	63	32	21
16	38	2,890	1,580	5,580	980	1,800	610	399	181	63	31	21
17	38	1,870	2,700	3,050	943	1,860	556	390	173	65	30	21
18	37	1,300	1,880	2,300	1,420	1,350	556	370	165	67	30	20
19	37	965	1,360	2,180	2,580	1,150	515	374	155	64	40	20
20	57	1,210	1,700	1,510	1,550	972	486	359	141	60	41	20
21	134	1,370	2,260	1,230	1,280	834	450	333	130	57	35	19
22	139	1,190	1,680	1,010	1,070	738	463	318	125	53	31	19
23	99	1,090	1,690	915	888	661	446	301	121	52	30	19
24	108	1,170	1,500	821	776	605	424	294	113	51	29	19
25	173	1,160	1,720	861	795	605	500	294	113	48	28	18
26	121	1,110	1,270	854	950	638	433	308	113	47	27	18
27	97	1,340	1,570	881	972	678	394	297	106	48	27	18
28	121	2,130	1,940	908	1,210	1,120	370	270	101	46	26	19
29	158	2,580	1,930	834	------	1,430	359	243	97	44	26	19
30	121	2,020	1,760	874	------	1,990	390	221	94	42	26	19
31	366	------	1,290	1,600	------	1,690	------	206	------	40	27	------
TOTAL	2,561	42,503	47,239	38,958	29,112	35,066	23,082	10,071	6,591	2,077	1,003	654
MEAN	82.6	1,417	1,524	1,257	1,040	1,131	769	325	220	67.0	32.4	21.8
MAX	366	2,890	2,700	5,580	2,580	2,160	1,780	424	795	99	41	30
MIN	37	230	847	280	463	605	359	206	94	40	26	18
CFSM	.79	13.5	14.5	12.0	9.90	10.8	7.32	3.10	2.10	.64	.31	.21
IN.	.91	15.06	16.74	13.80	10.31	12.42	8.18	3.57	2.34	.74	.36	.23
AC-FT	5,080	84,300	93,700	77,270	57,740	69,550	45,780	19,980	13,070	4,120	1,990	1,300

CAL YR 1973 TOTAL 157,925 MEAN 433 MAX 2,890 MIN 24 CFSM 4.12 IN 55.95 AC-FT 313,200
WTR YR 1974 TOTAL 238,917 MEAN 655 MAX 5,580 MIN 18 CFSM 6.24 IN 84.64 AC-FT 473,900

PEAK DISCHARGE (BASE, 3,400 CFS).--Dec. 7 (1200) 3,400 cfs (5.76 ft); Jan. 15 (2330) 7,320 cfs (9.03 ft).

14173500 CALAPOOIA RIVER AT ALBANY, OREG.

LOCATION.--Lat 44°37'15", long 123°07'40", in NW¼ sec.13, T.11 S., R.4 W., Linn County, near right bank on downstream side of bridge on Riverside Drive at Albany, 0.6 mi (1.0 km) downstream from Oak Creek, and at mile 3.0 (4.8 km).

DRAINAGE AREA.--372 mi^2 (963 km^2).

PERIOD OF RECORD.--October 1940 to current year. Prior to October 1963, published as Calapooya River at Albany.

GAGE.--Water-stage recorder. Datum of gage is 180.85 ft (55.123 m) above mean sea level. Prior to May 11, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 937 ft^3/s (26.5 m^3/s), 34.21 in/yr (869 mm/yr), 678,900 acre-ft/yr (837 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 25,800 ft^3/s (731 m^3/s) Jan. 16, gage height, 21.22 ft (6.468 m); minimum, 7.4 ft^3/s (0.21 m^3/s) Sept. 3.

Period of record: Maximum discharge observed, 32,700 ft^3/s (926 m^3/s) Dec. 22, 1955, gage height, 22.12 ft (6.742 m); maximum gage height, 25.5 ft (7.77 m) Jan. 2, 1943, from graph based on gage readings (backwater from Willamette River); minimum discharge, 3.5 ft^3/s (0.099 m^3/s) Sept. 7, 1967.

REMARKS.--Records good. Higher flows are affected by backwater from Willamette River at times. Diurnal fluctuation caused by ponds at flour mills near Shedd. Diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1218: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	334	5,270	2,300	3,720	4,010	5,000	506	273	110	46	19
2	72	565	3,830	1,570	4,050	3,640	4,080	512	268	113	47	9.8
3	70	341	2,490	1,230	2,860	3,390	3,660	465	280	110	30	15
4	57	283	2,000	993	2,400	2,110	2,680	430	280	98	31	37
5	66	354	1,640	834	3,080	1,920	2,070	418	430	96	17	28
6	45	522	1,500	750	2,360	3,490	1,730	447	795	106	55	28
7	54	711	3,820	700	1,670	3,710	1,520	465	555	99	33	27
8	52	690	4,840	650	1,370	2,340	1,300	444	438	103	29	20
9	70	1,460	4,430	600	1,200	1,610	1,680	430	367	111	30	14
10	59	2,340	2,490	550	1,100	1,330	1,760	404	336	123	32	40
11	44	2,800	1,730	600	985	1,560	1,390	377	312	113	26	29
12	50	3,220	1,950	700	923	2,730	1,770	407	300	113	26	26
13	46	4,020	4,290	1,640	876	3,610	1,630	506	290	107	39	26
14	33	4,800	4,770	3,050	1,070	3,500	1,300	427	273	85	33	26
15	37	5,590	4,010	11,300	1,060	5,120	1,080	410	261	82	29	23
16	57	10,700	4,010	23,900	2,090	4,870	974	438	245	92	32	15
17	51	8,800	5,920	12,200	2,920	3,700	869	519	234	85	30	18
18	43	5,180	7,630	6,510	2,350	3,040	802	499	212	82	23	25
19	37	2,930	5,150	6,950	4,440	2,150	770	478	202	85	22	24
20	49	2,130	4,440	5,510	5,490	1,630	717	484	190	81	38	24
21	32	4,160	8,700	3,900	3,850	1,360	680	453	173	76	39	24
22	69	4,660	8,170	2,660	3,210	1,190	644	424	163	73	45	19
23	163	3,850	4,790	2,120	2,360	1,060	638	404	156	81	56	14
24	111	3,200	3,320	1,880	1,640	948	619	388	152	68	40	8.8
25	113	3,130	3,120	1,620	1,530	866	625	377	144	62	29	22
26	163	3,130	2,940	1,730	2,420	876	670	370	141	44	17	21
27	149	2,850	2,450	1,560	3,650	934	593	380	144	41	44	18
28	117	2,900	3,220	1,610	4,200	3,040	548	370	134	50	32	16
29	109	4,820	3,820	1,470	------	4,230	522	339	131	48	27	16
30	166	6,540	3,880	1,340	------	4,790	493	307	113	72	26	11
31	151	------	3,290	1,920	------	6,340	------	285	------	49	26	------
TOTAL	2,413	97,010	123,910	106,347	68,874	85,094	42,814	13,163	7,992	2,658	1,029	643.6
MEAN	77.8	3,234	3,997	3,431	2,460	2,745	1,427	425	266	85.7	33.2	21.5
MAX	166	10,700	8,700	23,900	5,490	6,340	5,000	519	795	123	56	40
MIN.	32	283	1,500	550	876	866	493	285	113	41	17	8.8
CFSM	.21	8.69	10.7	9.22	6.61	7.38	3.84	1.14	.72	.23	.09	.06
IN.	.24	9.70	12.39	10.63	6.89	8.51	4.28	1.32	.80	.27	.10	.06
AC-FT	4,790	192,400	245,800	210,900	136,600	168,800	84,920	26,110	15,850	5,270	2,040	1,280

CAL YR 1973 TOTAL 346,200.7 MEAN 948 MAX 10,700 MIN 9.7 CFSM 2.55 IN 34.62 AC-FT 686,700
WTR YR 1974 TOTAL 551,947.6 MEAN 1,512 MAX 23,900 MIN 8.8 CFSM 4.06 IN 55.19 AC-FT 1,095,000

14174000 WILLAMETTE RIVER AT ALBANY, OREG.

LOCATION.--Lat 44°38'20", long 123°06'20", in SW¼ sec.6, T.11 S., R.3 W., Linn County, on right bank 5 ft (1.5 m) upstream from bridge on U.S. Highway 20 (Ellsworth Street) in Albany, 0.2 mi (0.3 km) downstream from Calapooia River, and at mile 119.31 (191.97 km).

DRAINAGE AREA.--4,840 mi² (12,500 km²), approximately.

PERIOD OF RECORD.--November 1878 to April 1888 (fragmentary), January to June 1892, November 1892 to September 1894, December 1894 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 167.18 ft (50.956 m) above mean sea level. Prior to Sept. 27, 1906, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 5.00 ft (1.524 m) higher. Sept. 27, 1906, to Nov. 12, 1934, nonrecording gage at site 300 ft (91 m) upstream at datum 5.00 ft (1.524 m) higher. Nov. 14, 1934, to Sept. 30, 1962, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--80 years (1893-94, 1895-74), 14,590 ft³/s (413 m³/s), 40.94 in/yr (1,040 mm/yr), 10,570,000 acre-ft/yr (13.0 km³/yr).

EXTREMES.--Current year: Maximum discharge, 118,000 ft³/s (3,340 m³/s) Jan. 17, gage height, 29.00 ft (8.839 m); minimum, 4,980 ft³/s (141 m³/s) Aug. 29.

Period of record: Maximum discharge, 266,000 ft³/s (7,530 m³/s) Jan. 14, 1881, gage height, 37.8 ft (11.52 m), present datum; minimum, 1,840 ft³/s (52.1 m³/s) Sept. 1, 2, 1940.

Flood of Dec. 4, 1861, reached a stage of 41.0 ft (12.50 m), discharge, 340,000 ft³/s (9,630 m³/s), from rating curve extended above 220,000 ft³/s (6,230 m³/s). Flood of Feb. 4, 1890, reached a stage of 38.9 ft (11.86 m), discharge, 291,000 ft³/s (8,240 m³/s).

REMARKS.--Records excellent. Flow regulated by nine reservoirs above station (see elsewhere in this report). Albany power canal diverts water from South Santiam River at Lebanon and discharges into Calapooia River near mouth; small diversions for irrigation and municipal water supply. Records of water temperatures for the current year at site 0.6 mi (1.0 km) upstream are published as "Willamette River above Calapooia River, at Albany" in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 694: Drainage area. WSP 904: 1939. WSP 1964. 1881, 1890, 1894, 1897, 1901, 1903, 1908, 1910, 1916, 1923, 1927, 1932(M). WSP 984: 1916. WSP 1248: 1895, 1902, 1907, 1915(M), 1917(M), 1918-19, 1934(M). WSP 1318 (monthly and annual figures only): 1894, 1897, 1901-3, 1907-8, 1910, 1916, 1918-19, 1923, 1927.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,600	11,900	50,700	49,500	42,300	39,600	51,600	11,100	11,100	7,810	5,400	5,770
2	5,810	14,700	49,500	42,600	47,500	40,400	49,300	11,600	11,300	7,770	5,490	5,790
3	5,970	13,500	46,600	38,600	42,400	36,500	50,100	12,200	12,000	7,830	5,640	5,770
4	6,210	13,100	44,600	30,500	38,300	27,400	45,900	11,300	12,500	7,910	5,620	5,750
5	6,410	13,200	41,400	25,600	38,700	23,700	39,900	10,700	14,800	7,790	5,460	5,750
6	6,570	15,800	37,300	23,400	33,700	31,500	36,400	10,900	21,400	7,730	5,350	5,790
7	6,800	20,200	40,000	21,700	27,900	38,700	30,100	11,400	21,400	7,650	5,400	5,710
8	7,130	22,000	45,700	20,400	22,700	30,800	25,700	12,000	20,300	7,530	5,400	5,640
9	7,310	26,600	42,800	19,400	19,200	21,700	24,200	13,700	17,100	7,570	5,380	5,620
10	7,330	33,500	42,000	17,600	15,100	20,700	23,600	13,800	14,900	7,390	5,380	5,730
11	7,730	37,200	41,400	17,400	13,500	22,200	22,000	12,800	14,300	6,590	5,380	5,710
12	8,380	38,700	41,800	17,100	14,200	24,300	24,000	11,100	14,600	6,610	5,420	5,600
13	9,110	44,900	48,000	20,500	12,200	28,900	25,400	11,300	14,800	6,510	5,420	5,880
14	9,240	47,300	54,100	28,500	11,700	31,500	23,200	11,000	15,400	6,190	5,470	6,470
15	9,260	52,500	55,300	55,300	12,600	43,400	20,500	11,100	15,900	5,950	6,280	6,960
16	9,320	69,000	54,400	102,000	15,500	50,000	19,000	11,200	15,500	5,840	6,610	7,350
17	9,540	61,500	57,800	114,000	22,000	46,300	16,400	11,800	14,400	5,790	6,590	8,380
18	9,640	51,800	61,700	87,100	23,400	43,200	15,500	12,000	13,500	5,710	6,570	9,090
19	9,660	48,600	54,900	70,600	34,700	37,100	14,900	11,800	13,600	5,640	6,630	9,190
20	9,680	45,700	55,500	65,300	44,300	29,000	14,500	12,100	13,900	5,530	6,880	9,260
21	9,920	47,400	66,800	62,100	44,000	25,900	14,000	11,800	12,800	5,490	6,820	9,260
22	10,300	52,500	63,800	58,500	38,700	23,900	13,100	11,300	11,500	5,490	6,740	9,240
23	10,500	51,000	54,900	56,500	32,100	22,200	13,000	11,100	10,700	5,380	6,700	9,240
24	10,300	47,700	49,000	54,400	24,600	20,100	13,800	11,300	10,300	5,260	6,660	9,190
25	10,400	47,600	46,700	49,300	21,000	18,900	16,200	11,300	9,900	5,240	6,010	9,220
26	10,600	47,600	47,300	47,000	24,100	18,300	18,100	11,500	9,440	5,330	5,530	9,090
27	10,800	48,600	46,500	44,000	32,400	18,500	13,900	12,400	8,870	5,530	5,350	8,930
28	10,600	49,400	52,000	41,100	36,600	24,000	10,800	12,900	8,460	5,680	5,260	8,970
29	10,800	54,300	55,500	37,900	------	34,600	10,100	12,400	8,160	5,660	5,130	9,010
30	11,100	58,400	55,700	35,500	------	42,900	10,300	11,900	7,890	5,510	5,260	8,990
31	11,100	------	55,300	35,800	------	52,300	------	11,400	------	5,440	5,550	------
TOTAL	273,120	1,186.2M	1,559.0M	1,389.2M	785,400	968,500	705,500	364,200	400,720	197,350	180,780	222,350
MEAN	8,810	39,540	50,290	44,810	28,050	31,240	23,520	11,750	13,360	6,366	5,832	7,412
MAX	11,100	69,000	66,800	114,000	47,500	52,300	51,600	13,800	21,400	7,910	6,880	9,260
MIN	5,600	11,900	37,300	17,100	11,700	18,300	10,100	10,700	7,890	5,240	5,130	5,600
CFSM	1.82	8.17	10.4	9.26	5.80	6.45	4.86	2.43	2.76	1.32	1.21	1.53
IN.	2.10	9.12	11.98	10.68	6.04	7.44	5.42	2.80	3.08	1.52	1.39	1.71
AC-FT	541,700	2,353M	3,092M	2,755M	1,558M	1,921M	1,399M	722,400	794,800	391,400	358,600	441,000

CAL YR 1973 TOTAL 7,220,120 MEAN 19,780 MAX 69,000 MIN 3,930 CFSM 4.09 IN 55.49 AC-FT 14,320,000
WTR YR 1974 TOTAL 8,232,320 MEAN 22,550 MAX 114,000 MIN 5,130 CFSM 4.66 IN 63.27 AC-FT 16,330,000

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OREG.

LOCATION.--Lat 44°42'25", long 122°06'00", in SE¼NW¼ sec.17, T.10 S., R.6 E., Marion County, on right bank 0.5 mi (0.8 km) downstream from Boulder Creek, 3.0 mi (4.8 km) southeast of Detroit, and at mile 70.7 (113.8 km).

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--January 1907 to October 1909, October 1928 to current year. Monthly discharge only January 1907, published in WSP 1318. Prior to October 1952, published as "at Detroit."

GAGE.--Water-stage recorder. Datum of gage is 1,590.07 ft (484.653 m) above mean sea level. See WSP 1738 for history of changes prior to Oct. 1, 1952.

AVERAGE DISCHARGE.--48 years, 1,015 ft^3/s (28.7 m^3/s), 63.81 in/yr (1,621 mm/yr), 735,400 acre-ft/yr (907 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 11,700 ft^3/s (331 m^3/s) Jan. 15, gage height, 9.57 ft (2.917 m); minimum, 321 ft^3/s (9.09 m^3/s) Oct. 19.

Period of record: Maximum discharge, 26,700 ft^3/s (756 m^3/s) Dec. 22, 1964, gage height, 13.76 ft (4.194 m), temporary backwater from debris, from rating curve extended above 6,600 ft^3/s (187 m^3/s) on basis of slope-area measurement of peak flow; minimum, 250 ft^3/s (7.08 m^3/s) Sept. 13, 1909.

REMARKS.--Records excellent. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 814: Drainage area at former site. WSP 1248: 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	1,420	1,610	1,880	2,200	1,190	2,640	1,810	1,990	1,690	794	593
2	363	929	1,430	1,600	1,810	1,160	2,390	1,690	2,300	1,380	778	587
3	359	762	1,320	1,400	1,580	1,070	2,040	1,670	2,470	1,290	770	581
4	354	717	1,210	1,260	1,620	1,040	1,780	1,720	3,230	1,270	762	581
5	350	681	1,120	1,110	1,440	1,150	1,690	1,970	4,130	1,300	747	581
6	367	639	1,190	1,070	1,310	1,130	1,750	2,330	3,310	1,260	725	574
7	381	600	3,080	1,040	1,220	1,040	1,680	2,560	2,710	1,170	695	568
8	363	810	2,850	1,030	1,150	984	1,610	2,730	2,300	1,150	681	568
9	354	2,040	2,130	1,030	1,110	947	1,600	2,590	2,160	1,160	674	581
10	350	2,780	1,770	1,020	1,070	929	1,490	2,300	2,220	1,110	667	587
11	346	3,250	1,640	1,020	1,050	947	1,620	2,340	2,590	1,120	667	568
12	350	3,730	1,610	938	1,030	994	1,720	2,670	2,940	1,030	660	556
13	341	2,760	1,710	1,450	1,000	956	1,580	2,230	3,120	1,000	653	550
14	337	2,200	1,610	2,470	1,040	1,100	1,500	2,000	3,170	1,020	646	544
15	337	2,620	1,810	8,530	1,060	1,450	1,450	1,820	3,040	1,020	639	544
16	333	3,660	2,410	9,330	1,260	1,750	1,390	1,670	2,780	975	633	544
17	333	2,610	3,770	6,330	1,210	2,230	1,420	1,520	2,820	975	633	544
18	333	1,930	3,040	5,320	1,400	2,030	1,500	1,420	2,940	1,000	633	538
19	335	1,530	2,330	5,480	2,190	1,820	1,490	1,360	2,780	1,000	660	538
20	424	1,440	2,800	3,900	1,780	1,640	1,430	1,320	2,390	984	653	532
21	498	1,300	3,830	2,930	1,560	1,500	1,430	1,290	2,160	956	633	532
22	454	1,140	3,100	2,370	1,390	1,430	1,570	1,370	2,090	929	626	532
23	419	1,080	2,710	2,070	1,250	1,370	1,680	1,470	1,970	894	626	526
24	476	1,030	2,610	1,840	1,170	1,330	1,680	1,530	1,850	868	619	526
25	515	1,030	3,270	1,770	1,130	1,370	1,720	1,750	1,750	851	619	520
26	465	966	2,560	1,640	1,140	1,480	1,570	2,250	1,540	834	613	520
27	434	1,010	3,350	1,560	1,100	1,670	1,480	2,460	1,430	826	613	520
28	476	1,500	3,640	1,470	1,200	2,220	1,430	2,310	1,400	818	619	520
29	515	1,690	3,380	1,400	------	2,710	1,440	2,090	1,440	843	619	515
30	470	1,650	2,910	1,430	------	3,190	1,640	1,900	1,620	834	606	515
31	1,270	------	2,280	1,880	------	2,820	------	1,860	------	810	600	------
TOTAL	13,074	49,504	74,080	77,568	37,470	46,647	49,410	60,000	72,640	32,367	20,563	16,485
MEAN	422	1,650	2,390	2,502	1,338	1,505	1,647	1,935	2,421	1,044	663	550
MAX	1,270	3,730	3,830	9,330	2,200	3,190	2,640	2,730	4,130	1,690	794	593
MIN	333	600	1,120	938	1,000	929	1,390	1,290	1,400	810	600	515
CFSM	1.95	7.64	11.1	11.6	6.19	6.97	7.63	8.96	11.2	4.83	3.07	2.55
IN.	2.25	8.53	12.76	13.36	6.45	8.03	8.51	10.33	12.51	5.57	3.54	2.84
AC-FT	25,930	98,190	146,900	153,900	74,320	92,520	98,000	119,000	144,100	64,200	40,790	32,700

CAL YR 1973 TOTAL 334,374 MEAN 916 MAX 3,830 MIN 333 CFSM 4.24 IN 57.59 AC-FT 663,200
WTR YR 1974 TOTAL 549,808 MEAN 1,506 MAX 9,330 MIN 333 CFSM 6.97 IN 94.69 AC-FT 1,091,000

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	0700	6.74	3,980	12-28	0100	6.83	4,160
11-16	0830	6.79	4,080	1-15	2300	9.57	11,700
12-17	1100	6.84	4,180	6- 5	0700	7.01	4,420
12-21	0700	6.79	4,080				

14179000 BREITENBUSH RIVER ABOVE CANYON CREEK, NEAR DETROIT, OREG.

LOCATION.--Lat 44°45'10", long 122°07'40", in SE¼NE¼ sec.36, T.9 S., R.5 E., Marion County, in Willamette National Forest, on left bank 600 ft (183 m) upstream from Canyon Creek, 1.5 mi (2.4 km) northeast of Detroit, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--June 1932 to current year. Monthly discharge only June 1932, published in WSP 1318. Prior to October 1952, published as "above French Creek, near Detroit."

GAGE.--Water-stage recorder. Datum of gage is 1,573.95 ft (479.740 m) above mean sea level. Prior to Oct. 1, 1952, at site 0.2 mi (0.3 km) downstream at datum 13.46 ft (4.103 m) lower.

AVERAGE DISCHARGE.--42 years, 582 ft³/s (16.5 m³/s), 74.56 in/yr (1,894 mm/yr), 421,700 acre-ft/yr (520 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 ft³/s (309 m³/s) Jan. 15, gage height, 11.70 ft (3.566 m); minimum, 109 ft³/s (3.09 m³/s) Oct. 18, 19.

Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Dec. 22, 1964, gage height, 14.55 ft (4.435 m); minimum, 87 ft³/s (2.46 m³/s) Sept. 2, 1940.

REMARKS.--Records excellent. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1044: 1943(M). WSP 1248: 1947.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	1.380	1.050	1.060	1.470	718	1.650	1.050	988	988	356	200
2	139	725	937	870	1.890	685	1.450	934	1.220	666	347	197
3	134	534	858	738	912	605	1.170	870	1.370	623	356	194
4	129	462	783	653	870	564	1.000	901	1.980	653	352	194
5	127	403	701	576	766	780	925	1.120	2.470	732	334	191
6	142	354	824	542	660	780	1.050	1.400	1.780	666	313	188
7	147	345	3.090	505	587	623	1.000	1.580	1.420	570	297	184
8	132	570	2.240	462	548	548	936	1.630	1.160	570	282	181
9	127	1.850	1.490	429	526	490	950	1.470	1.100	593	274	191
10	125	2.660	1.150	409	521	479	878	1.190	1.180	521	274	191
11	122	2.710	1.090	394	516	516	1.010	1.240	1.450	510	278	181
12	122	2.760	1.170	414	505	559	1.130	1.370	1.650	473	271	178
13	120	1.890	1.290	570	479	532	942	1.090	1.690	473	264	175
14	118	1.440	1.170	2.220	537	599	839	958	1.690	521	256	172
15	116	1.970	1.620	7.760	587	973	817	870	1.580	532	248	169
16	113	2.870	2.460	7.190	847	1.290	773	817	1.400	467	244	169
17	111	1.720	3.470	4.290	773	1.580	795	745	1.510	505	244	166
18	111	1.230	2.280	3.050	862	1.240	885	679	1.570	553	248	164
19	111	916	1.630	2.820	1.540	1.060	854	647	1.390	532	252	164
20	155	844	2.140	2.000	1.050	934	795	623	1.200	505	248	161
21	227	763	3.140	1.510	862	839	788	599	1.080	484	236	161
22	217	677	2.270	1.200	738	795	909	660	1.060	467	232	158
23	197	642	1.970	1.090	635	745	973	725	958	440	232	158
24	274	648	1.890	965	570	725	958	809	885	414	229	155
25	289	654	2.210	1.010	564	795	965	1.060	854	399	221	155
26	244	603	1.630	980	599	925	870	1.450	725	389	218	155
27	214	683	2.390	909	570	1.090	795	1.490	666	389	218	155
28	270	1.470	2.480	917	718	1.650	752	1.260	705	389	218	152
29	297	1.280	2.130	885	------	1.990	766	1.070	780	414	218	152
30	266	1.110	1.790	885	------	2.120	950	925	950	394	211	149
31	1.860	------	1.350	1.280	------	1.770	------	878	------	375	207	------
TOTAL	6.900	36.163	54.693	48.583	21.702	28.999	28.575	32.110	38.461	16.207	8.178	5.160
MEAN	223	1.205	1.764	1.567	775	935	953	1.036	1.282	523	264	172
MAX	1.860	2.870	3.470	7.760	1.890	2.120	1.650	1.630	2.470	988	356	200
MIN	111	345	701	394	479	479	752	599	666	375	207	149
CFSM	2.10	11.4	16.6	14.8	7.31	8.82	8.99	9.77	12.1	4.93	2.49	1.62
IN.	2.42	12.69	19.19	17.05	7.62	10.18	10.03	11.27	13.50	5.69	2.87	1.81
AC-FT	13.690	71.730	108.500	96.360	43.050	57.520	56.680	63.690	76.290	32.150	16.220	10.230

CAL YR 1973 TOTAL 192.507 MEAN 527 MAX 3.580 MIN 98 CFSM 4.97 IN 67.56 AC-FT 381.800
WTR YR 1974 TOTAL 325.731 MEAN 892 MAX 7.760 MIN 111 CFSM 8.42 IN 114.31 AC-FT 646.100

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1630	7.61	4,230	1-15	2100	11.70	10,900
12- 7	1200	7.58	4,190				

14180500 DETROIT LAKE NEAR DETROIT, OREG.

LOCATION.--Lat 44°43'20", long 122°14'55", in SW¼NW¼ sec.7, T.10 S., R.5 E., Marion County, in control house near right abutment of Detroit Dam on North Santiam River, 4.9 mi (7.9 km) west of Detroit, and at mile 60.9 (98.0 km).

DRAINAGE AREA.--437 mi^2 (1,132 km^2).

PERIOD OF RECORD.--January 1953 to current year. Prior to October 1971, published as Detroit Reservoir near Detroit.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 451,200 acre-ft (556 hm^3) July 18, elevation, 1,567.88 ft (477.890 m); minimum, 163,500 acre-ft (202 hm^3) Jan. 11, elevation, 1,455.17 ft (443.536 m).

Period of record: Maximum contents, 457,900 acre-ft (565 hm^3) July 13, 1972, elevation, 1,569.79 ft (478.472 m); minimum, 115,500 acre-ft (142 hm^3) Jan. 30, 1969, elevation, 1,425.37 ft (434.453 m).

REMARKS.--Reservoir is formed by concrete, gravity-type dam with six 42-ft (12.8 m) by 28-ft ((8.5 m) control gates. Length of dam is 1,580 ft (481.6 m) built by Corps of Engineers. Storage began in January 1953. Total capacity is 455,100 acre-ft (561 hm^3) and usable capacity is 340,100 acre-ft (419 hm^3) between elevations 1,425.0 ft (434.34 m), proposed lower limit of operation, and 1,569.0 ft (478.23 m), top of spillway gates. Reservoir used for flood control, power development, irrigation, improvement of navigation, pollution abatement, and other purposes. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,425	115,000	1,480	210,900	1,530	331,500
1,430	122,200	1,490	232,000	1,540	360,200
1,440	137,700	1,500	254,600	1,550	390,900
1,450	154,400	1,510	278,700	1,560	424,000
1,460	172,200	1,520	304,400	1,570	458,600
1,470	191,100				

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315.300	253.800	203.800	251.900	218.500	258.300	346.200	391.000	424.100	449.600	450.700	419.400
2	313.700	253.700	200.300	237.700	216.000	261.500	348.100	392.300	425.000	449.100	450.800	417.100
3	312.000	252.700	196.000	222.700	212.100	264.100	348.000	393.100	426.400	449.200	450.800	414.500
4	310.300	251.200	191.200	211.500	208.800	266.500	346.500	394.800	429.700	449.100	450.800	412.000
5	308.500	249.300	165.800	204.900	208.500	268.800	344.700	398.000	432.000	449.300	450.700	409.500
6	307.000	247.100	181.400	196.300	207.700	271.900	344.100	402.700	430.300	449.100	450.500	497.200
7	305.500	244.500	199.500	191.300	207.000	274.400	343.600	407.500	428.300	448.700	450.500	406.200
8	303.800	243.700	211.300	184.100	206.000	276.600	342.500	411.800	427.700	448.100	450.200	405.100
9	302.100	252.400	216.100	176.900	208.300	278.500	341.400	412.700	429.400	448.200	449.900	402.500
10	300.200	263.700	215.400	169.900	210.500	280.300	342.400	413.200	431.800	448.200	449.500	400.100
11	298.500	275.300	216.000	163.500	209.100	280.400	345.000	417.200	433.500	448.100	449.200	398.700
12	295.900	289.900	216.700	163.800	211.300	281.000	347.900	422.400	436.300	448.500	448.800	395.600
13	293.100	297.500	211.700	168.000	213.100	281.200	349.500	425.200	437.900	448.700	448.100	392.400
14	290.400	296.400	204.000	180.100	214.300	281.600	350.400	426.600	437.600	449.100	447.200	391.400
15	287.600	304.300	198.000	238.400	217.400	284.300	351.200	427.900	437.700	449.500	445.000	390.000
16	284.000	322.900	201.100	289.000	222.100	289.200	354.100	428.400	437.900	450.300	443.000	387.400
17	279.300	323.300	220.200	317.600	226.200	296.400	356.900	428.500	438.800	451.000	442.400	383.900
18	274.600	313.200	224.200	335.900	232.100	301.000	360.000	428.800	438.400	451.200	441.500	380.500
19	269.900	300.000	217.900	351.700	243.100	303.800	363.400	429.600	439.200	450.900	439.500	377.000
20	267.000	278.200	224.700	352.000	247.800	305.600	366.300	429.000	439.100	450.600	437.500	373.400
21	264.600	275.400	237.700	343.300	251.500	306.600	367.600	428.300	440.300	450.400	436.500	369.900
22	262.000	261.300	242.900	330.500	254.400	307.300	369.800	428.900	441.300	450.200	434.200	366.300
23	259.300	246.600	244.800	314.900	257.500	307.600	371.300	428.700	441.900	450.000	432.200	362.400
24	256.100	231.900	246.500	298.300	260.000	307.800	372.400	429.000	442.000	449.800	431.600	358.500
25	253.100	218.600	250.300	282.100	259.200	308.500	371.600	431.100	443.000	449.700	430.600	354.500
26	249.800	210.100	258.500	266.700	259.000	309.900	372.600	435.700	443.600	449.600	428.400	350.500
27	246.100	204.400	264.500	251.400	258.300	312.600	376.300	439.700	443.900	449.700	426.000	346.500
28	243.200	204.700	269.200	236.400	258.300	319.500	380.200	440.700	444.600	450.000	424.800	342.600
29	240.300	206.100	277.400	224.000	------	326.900	383.900	436.100	446.300	450.200	422.500	338.500
30	239.600	206.200	274.500	218.200	------	336.673	387.500	431.400	448.600	450.500	420.200	334.400
31	249.100	------	264.700	217.800	------	342.700	------	426.500	------	450.600	419.500	------
MAX	315.300	323.300	277.400	352.000	260.000	342.700	387.500	440.700	448.600	451.200	450.800	497.200
MIN	239.600	204.400	181.400	163.500	206.000	258.300	341.400	391.000	424.100	448.100	419.500	334.400
(†)	1,497.61	1,477.65	1,504.25	1,483.32	1,501.56	1,533.97	1,548.94	1,560.74	1,567.13	1,567.72	1,558.70	1,531.03
(‡)	-67,000	-42,900	+58,300	-46,900	+40,500	+84,400	+44,800	+39,000	+22,100	+2,000	-31,100	-85,100

WTR YR 1974 MAX 497.200 MIN 163.500 AC-FT ‡ +18,300

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

14181500 NORTH SANTIAM RIVER AT NIAGARA, OREG.

LOCATION.--Lat 44°45'10", long 122°17'50", in NE¼NE¼ sec.34, T.9 S., R.4 E., Marion County, on left bank 0.1 mi (0.2 km) downstream from Little Sardine Creek, 0.8 mi (1.3 km) downstream from Big Cliff Dam, 2.1 mi (3.4 km) east of Niagara, and at mile 57.3 (92.2 km).

DRAINAGE AREA.--453 mi^2 (1,173 km^2).

PERIOD OF RECORD.--December 1908 to January 1920, October 1921 to March 1922, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as North Fork of Santiam River near Niagara prior to October 1913, and as "above Mayflower Creek, near Detroit" October 1938 to September 1952.

GAGE.--Water-stage recorder. Datum of gage is 1,093.78 ft (333.384 m) above mean sea level (Bureau of Public Roads bench mark). See WSP 1738 for history of changes prior to Oct. 1, 1952.

AVERAGE DISCHARGE.--46 years (1909-19, 1938-74), 2,367 ft^3/s (67.0 m^3/s), 70.96 in/yr (1,802 mm/yr), 1,715,000 acre-ft/yr (2.11 km^3/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 13,000 ft^3/s (362 m^3/s) Jan. 22, gage height, 8.48 ft (2.585 m); minimum, 724 ft^3/s (39.1 m^3/s) July 25; minimum daily, 1,000 ft^3/s (28.3 m^3/s) Feb. 16.

Period of record: Maximum discharge, 63,200 ft^3/s (1,790 m^3/s) Nov. 22, 1909, gage height, 16.4 ft (5.00 m), from floodmark, site and datum then in use, from rating curve extended above 35,000 ft^3/s (991 m^3/s); minimum, 19 ft^3/s (0.54 m^3/s) Aug. 21, 1963; minimum daily, 430 ft^3/s (12.2 m^3/s) Sept. 23-25, 1915.

REMARKS.--Records excellent. Flow regulated since 1953 by Detroit Lake (see station 14180500) and Big Cliff Reservoir, usable capacity for reregulating purposes, 2,930 acre-ft (3.61 hm^3). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1288: 1914-18, 1920. WSP 1718: 1953-54.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	2,740	5,790	11,000	5,880	3,060	5,100	2,170	5,100	2,250	1,210	1,370
2	1,260	2,730	5,790	11,000	5,680	1,220	4,920	2,890	4,140	2,410	1,210	1,570
3	1,440	2,640	5,760	10,900	5,700	1,160	4,960	2,880	4,210	2,020	1,190	2,090
4	1,470	2,700	5,650	8,760	5,720	1,180	4,790	2,690	5,370	2,100	1,200	2,140
5	1,530	2,710	5,590	5,590	3,520	2,190	4,850	2,730	7,670	2,200	1,230	2,250
6	1,460	2,630	5,610	5,740	3,140	1,650	4,620	2,740	7,360	2,160	1,200	1,970
7	1,490	2,690	2,910	5,480	2,800	1,300	4,290	2,950	6,400	2,200	1,190	1,260
8	1,490	2,980	2,140	5,440	2,860	1,210	4,330	3,840	4,580	2,150	1,150	1,490
9	1,500	3,800	3,000	5,520	1,310	1,100	4,290	4,580	3,030	1,940	1,220	2,120
10	1,550	5,140	4,310	5,160	1,050	1,060	3,010	4,210	3,050	1,900	1,180	2,110
11	1,480	4,960	3,750	4,870	2,610	2,050	2,970	2,880	4,190	1,850	1,220	1,500
12	1,840	4,170	4,040	1,810	1,310	2,250	3,010	2,970	4,190	1,590	1,210	2,200
13	1,940	4,250	7,130	2,560	1,090	2,000	3,060	3,400	4,940	1,450	1,300	2,520
14	1,950	6,860	8,530	2,690	1,550	2,450	2,940	2,980	5,900	1,470	1,480	1,340
15	1,950	5,570	8,590	2,050	1,000	2,950	2,890	2,970	5,390	1,480	2,080	1,520
16	2,440	2,940	7,230	1,370	1,000	2,920	1,590	3,140	4,730	1,230	2,020	2,200
17	2,820	7,030	3,590	1,360	1,160	2,980	1,770	3,030	4,750	1,200	1,200	2,520
18	2,790	10,200	5,880	2,760	1,180	2,790	1,700	2,660	5,290	1,650	1,340	2,530
19	2,820	10,800	9,190	3,930	1,370	2,830	1,740	2,610	4,190	1,640	2,150	2,600
20	2,340	9,990	7,360	7,850	2,120	2,890	1,590	2,980	3,880	1,950	2,030	2,560
21	2,210	10,100	2,540	10,400	1,760	2,690	2,450	3,110	3,190	1,580	1,490	2,600
22	2,230	10,200	5,550	11,600	1,760	2,790	2,410	2,560	2,880	1,640	2,080	2,520
23	2,350	10,700	6,380	12,800	1,310	2,770	2,920	2,980	3,000	1,530	2,090	2,820
24	2,690	10,600	6,400	12,800	1,070	2,800	3,190	3,000	2,910	1,480	1,130	2,710
25	2,690	9,930	6,430	12,800	2,700	2,760	4,100	2,970	2,570	1,540	1,470	2,760
26	2,820	7,230	2,220	12,000	2,910	2,800	2,880	2,640	2,210	1,280	2,120	2,800
27	2,730	5,720	6,330	11,700	3,050	2,850	1,100	3,140	2,150	1,320	2,030	2,770
28	2,690	6,100	7,570	11,500	2,800	3,030	1,170	4,190	2,090	1,190	1,490	2,760
29	2,850	3,970	4,810	9,840	------	3,700	1,110	6,470	1,590	1,260	2,090	2,740
30	1,510	5,880	8,700	6,500	------	3,730	1,810	6,080	1,610	1,200	2,020	2,910
31	2,030	------	10,500	5,720	------	3,890	------	6,080	------	1,220	1,220	------
TOTAL	63,370	177,960	179,270	223,500	69,410	75,050	91,560	104,520	122,560	52,080	47,240	67,250
MEAN	2,044	5,932	5,783	7,210	2,479	2,421	3,052	3,372	4,085	1,680	1,524	2,242
MAX	2,850	10,800	10,500	12,800	5,880	3,890	5,100	6,470	7,670	2,410	2,150	2,910
MIN	1,010	2,630	2,140	1,360	1,000	1,060	1,100	2,170	1,590	1,190	1,130	1,260
AC-FT	125,700	353,000	355,600	443,300	137,700	148,900	181,600	207,300	243,100	103,300	93,700	133,400
MEAN†	955	5,211	6,735	6,447	3,209	3,794	3,805	4,006	4,457	1,713	1,018	812
CFSM†	2.11	11.50	14.87	14.23	7.08	8.38	8.40	8.84	9.84	3.78	2.25	1.79
IN.†	2.43	12.84	17.14	16.41	7.38	9.66	9.37	10.20	10.98	4.36	2.59	2.00
AC-FT†	58,700	310,100	414,100	396,400	178,200	233,300	226,400	246,300	265,200	105,300	62,600	48,300

CAL YR 1973 TOTAL 764,486 MEAN 2,094 MAX 10,800 MIN 586 AC-FT 1,516,000 MEAN† 2,182 CFSM† 4.82 IN.† 65.40 AC-FT† 1,580,000
WTR YR 1974 TOTAL 1,273,770 MEAN 3,490 MAX 12,800 MIN 1,000 AC-FT 2,527,000 MEAN† 3,515 CFSM† 7.76 IN.† 105.36 AC-FT† 2,545,000

† Adjusted for change in contents of Detroit Lake.

14182500 LITTLE NORTH SANTIAM RIVER NEAR MEHAMA, OREG.

LOCATION.--Lat 44°47'30", long 122°34'40", in NW¼ sec.16, T.9 S., R.2 E., Marion County, on left bank 2.0 mi (3.2 km) east of Mehama and at mile 2.0 (3.2 km).

DRAINAGE AREA.--112 mi² (290 km²) at cableway 1.2 mi (1.9 km) downstream where all discharge measurements are made.

PERIOD OF RECORD.--October 1931 to current year. Records for July to September 1924 and July to September 1931 at site 4 mi (6.4 km) upstream not equivalent owing to difference in drainage areas.

GAGE.--Water-stage recorder. Datum of gage is 655.41 ft (199.769 m) above mean sea level. Prior to June 12, 1948, nonrecording gage at about same site and datum.

AVERAGE DISCHARGE.--43 years, 781 ft³/s (22.1 m³/s), 94.70 in/yr (2,405 mm/yr), 565,800 acre-ft/yr (698 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft³/s (402 m³/s) Jan. 15, gage height, 11.35 ft (3.459 m); minimum, 23 ft³/s (0.65 m³/s) Sept. 25-27, 30.

Period of record: Maximum discharge, 36,000 ft³/s (1,020 m³/s) Dec. 22, 1964, gage height, 16.73 ft (5.099 m), from rating curve extended above 17,000 ft³/s (481 m³/s); minimum, 13 ft³/s (0.37 m³/s) Aug. 30, 1961.

REMARKS.--Records good. No regulation or diversion above station. Records herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 754: 1932. WSP 1218: 1934, 1936, 1949-50. WSP 1935: Maximum only, 1932-34, 1936, 1938, 1943, 1945-49, 1950(M,P), 1951-53(M), 1954(M,P), 1955(M), 1956(M,P), 1957(M), 1958-59(M,P). WSP 2135: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	2,920	2,170	1,260	2,690	1,800	2,180	1,010	738	413	85	39
2	135	1,340	1,820	964	1,760	1,500	1,920	820	989	316	82	37
3	120	851	1,580	775	1,260	1,200	1,540	726	981	271	79	36
4	110	750	1,350	661	1,710	920	1,270	732	2,000	267	74	37
5	100	684	1,090	567	1,410	2,180	1,400	1,020	3,340	291	71	37
6	108	708	1,530	516	1,070	2,280	1,700	1,360	1,970	281	68	36
7	153	738	7,100	482	843	1,430	1,440	1,320	1,420	239	65	35
8	126	1,010	3,250	422	738	1,020	1,190	1,260	1,040	235	62	34
9	110	3,530	1,940	387	714	801	1,310	1,100	898	264	61	41
10	100	4,080	1,480	371	732	726	1,350	964	947	257	58	44
11	92	3,630	1,430	331	708	807	2,050	1,520	1,190	251	55	38
12	96	3,850	1,520	435	649	947	2,360	1,980	1,270	223	54	35
13	91	2,830	1,700	2,260	583	843	1,590	1,200	1,240	203	53	33
14	84	2,460	1,590	3,720	769	1,030	1,170	981	1,160	198	54	32
15	79	3,830	2,460	9,810	906	2,650	1,060	981	955	192	53	30
16	74	5,080	4,520	9,040	1,720	2,690	906	922	781	176	51	31
17	71	2,560	6,010	4,920	1,490	3,230	866	788	835	239	49	33
18	69	1,670	3,180	2,910	2,120	1,980	964	763	874	261	48	29
19	65	1,170	2,030	3,410	4,290	1,480	890	898	781	226	58	29
20	74	1,260	2,910	2,090	2,200	1,130	843	801	632	200	63	28
21	142	1,320	5,020	1,470	1,610	947	828	732	551	181	55	27
22	207	1,270	2,960	1,210	1,240	851	922	750	562	166	49	26
23	181	1,280	3,250	1,580	972	750	890	756	487	151	47	25
24	437	1,570	2,680	1,530	900	708	807	801	440	139	46	24
25	604	1,640	3,220	1,870	1,100	801	851	1,140	417	128	44	23
26	461	1,610	1,990	1,970	1,400	1,060	788	1,390	387	120	45	23
27	341	2,470	4,480	1,820	1,300	1,480	769	1,260	363	116	45	23
28	525	4,260	4,480	1,990	2,000	2,300	775	1,010	350	110	44	24
29	793	3,630	3,180	1,780	------	2,540	744	835	358	104	42	24
30	535	2,590	2,590	1,600	------	2,850	989	696	426	100	40	23
31	3,670	------	1,760	2,460	------	2,120	------	649	------	93	40	------
TOTAL	9,908	66,591	86,270	64,611	38,884	47,051	36,362	31,165	28,382	6,411	1,740	936
MEAN	320	2,220	2,783	2,084	1,389	1,518	1,212	1,005	946	207	56.1	31.2
MAX	3,670	5,080	7,100	9,810	4,290	3,230	2,360	1,980	3,340	413	85	44
MIN	65	684	1,090	331	583	708	744	649	350	93	40	23
CFSM	2.86	19.8	24.8	18.6	12.4	13.6	10.8	8.97	8.45	1.85	.50	.28
IN.	3.29	22.12	28.65	21.46	12.92	15.63	12.08	10.35	9.43	2.13	.58	.31
AC-FT	19,650	132,100	171,100	128,200	77,130	93,330	72,120	61,820	56,300	12,720	3,450	1,860

CAL YR 1973 TOTAL 281,335 MEAN 771 MAX 7,100 MIN 28 CFSM 6.88 IN 93.44 AC-FT 558,000
WTR YR 1974 TOTAL 418,311 MEAN 1,146 MAX 9,810 MIN 23 CFSM 10.2 IN 138.94 AC-FT 829,700

PEAK DISCHARGE (BASE, 8,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1900	9.80	9,370	1-15	1300	11.35	14,200
12- 7	1130	10.05	10,100				

14183000 NORTH SANTIAM RIVER AT MEHAMA, OREG.

LOCATION.--Lat 44°47'20", long 122°37'00", in NW¼ sec.18, T.9 S., R.2 E., Marion County, on right bank 300 ft (91 m) downstream from highway bridge at Mehama, 0.5 mi (0.8 km) downstream from Little North Santiam River, and at mile 38.71 (62.28 km).

DRAINAGE AREA.--655 mi^2 (1,696 km^2), at cableway 0.8 mi (1.3 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.--July 1905 to March 1907, October 1910 to September 1914, September 1921 to current year. Monthly discharge only September 1921, published in WSP 1318. Prior to October 1913, published as North Fork of Santiam River at Mehama.

GAGE.--Water-stage recorder. Datum of gage is 602.49 ft (183.639 m) above mean sea level. Prior to June 15, 1933, nonrecording gage at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--58 years (1905-6, 1910-14, 1921-74), 3,386 ft^3/s (95.9 m^3/s), 2,453,000 acre-ft/yr (3.02 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 22,500 ft^3/s (637 m^3/s) Jan. 15, gage height, 9.59 ft (2.923 m); minimum, 1,060 ft^3/s (30.0 m^3/s) Aug. 18; minimum daily, 1,260 ft^3/s (35.7 m^3/s) Aug. 8.

Period of record: Maximum discharge, 76,600 ft^3/s (2,170 m^3/s) Dec. 28, 1945, gage height, 15.37 ft (4.685 m), from rating curve extended above 36,000 ft^3/s (1,020 m^3/s), on basis of slope-area measurement of peak flow; maximum gage height, 17.5 ft (5.33 m) Nov. 20, 1921, from graph based on gage readings, and Jan. 6, 1923, from floodmark, at site then in use; minimum discharge, 254 ft^3/s (7.19 m^3/s) Aug. 3, 1970; minimum daily, 420 ft^3/s (11.9 m^3/s) Sept. 18, 1924.

REMARKS.--Records excellent. Flow regulated since 1953 by Detroit Lake (see station 14180500) and Big Cliff Reservoir, usable capacity for reregulating purposes, 2,930 acre-ft (3.61 hm^3). No diversion above station. All records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 739: 1922-23(M). WSP 1044: 1943. WSP 1248: 1906, 1911-14, 1924(M), 1926, 1934-36(M), 1937, 1938(M), 1942(M). WSP 2135: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	6,690	9,660	13,700	10,100	5,380	8,550	3,440	6,180	2,630	1,320	1,380
2	1,440	4,620	8,940	13,100	8,370	3,580	8,050	3,940	5,280	2,880	1,320	1,620
3	1,660	3,940	8,440	12,500	7,590	2,860	7,470	3,880	5,350	2,390	1,310	1,990
4	1,680	4,000	7,940	10,500	8,650	2,800	6,870	3,740	7,290	2,370	1,300	2,200
5	1,770	4,000	7,560	6,350	6,030	5,430	6,870	4,000	11,800	2,550	1,340	2,230
6	1,740	3,980	8,160	6,450	4,920	5,600	7,050	4,420	9,820	2,520	1,340	2,140
7	1,780	4,040	13,800	6,180	4,350	3,660	6,380	4,530	8,300	2,480	1,280	1,350
8	1,770	4,550	6,870	5,980	4,110	3,040	6,130	5,130	5,980	2,480	1,260	1,460
9	1,760	8,900	6,130	6,150	2,730	2,520	6,200	5,980	4,350	2,340	1,310	2,090
10	1,770	11,500	6,480	5,680	2,170	2,330	5,250	5,450	4,220	2,230	1,270	2,230
11	1,760	10,600	6,380	5,530	3,500	3,200	5,980	4,810	5,400	2,170	1,300	1,580
12	2,000	10,700	6,280	2,550	2,450	3,880	6,330	5,350	5,600	2,020	1,300	2,060
13	2,190	8,620	10,100	5,380	1,990	3,540	5,380	4,750	6,130	1,720	1,360	2,500
14	2,200	10,900	11,600	7,870	2,630	4,180	4,770	4,480	7,080	1,730	1,540	1,590
15	2,200	13,200	12,900	18,700	2,230	6,930	4,550	4,260	6,630	1,730	1,990	1,540
16	2,600	11,800	14,800	13,700	3,180	6,930	3,160	4,440	5,600	1,500	2,230	2,050
17	2,910	10,800	13,900	7,940	3,260	7,440	3,040	4,200	5,730	1,540	1,300	2,480
18	3,070	13,500	10,500	6,500	4,090	5,680	3,020	3,820	6,130	1,950	1,360	2,520
19	3,110	13,200	13,200	7,770	8,160	4,950	3,090	3,940	5,300	1,850	2,140	2,610
20	2,710	12,800	13,200	9,900	5,480	4,680	2,860	4,180	4,660	2,200	2,170	2,480
21	2,560	13,300	10,600	12,300	4,370	4,220	3,500	4,200	3,900	1,890	1,600	2,600
22	2,660	13,200	10,600	13,200	3,880	4,220	3,700	3,700	3,560	1,850	2,000	2,550
23	2,680	13,600	12,000	15,400	2,980	3,960	4,020	4,040	3,600	1,710	2,270	2,770
24	3,320	13,900	11,000	15,300	2,440	3,940	4,290	4,130	3,460	1,650	1,270	2,730
25	3,580	13,500	12,000	15,600	3,960	3,960	5,330	4,420	3,110	1,680	1,470	2,730
26	3,580	10,800	5,750	15,100	4,770	4,220	4,440	4,350	2,770	1,420	2,030	2,770
27	3,320	9,780	12,500	14,800	4,840	4,620	2,210	4,680	2,580	1,520	2,170	2,770
28	3,520	13,900	14,400	14,700	5,200	5,500	2,300	5,010	2,500	1,370	1,590	2,770
29	4,070	10,600	10,500	12,900	------	6,990	2,120	7,470	2,120	1,410	2,000	2,730
30	2,530	10,800	13,300	9,260	------	8,400	2,970	6,960	2,120	1,320	2,200	2,910
31	6,720	------	14,000	9,180	------	7,230	------	6,810	------	1,340	1,350	------
TOTAL	79,940	295,720	323,490	320,170	128,430	145,870	145,880	144,510	156,550	60,440	49,690	67,430
MEAN	2,579	9,857	10,440	10,330	4,587	4,705	4,863	4,662	5,218	1,950	1,603	2,248
MAX	6,720	13,900	14,800	18,700	10,100	8,400	8,550	7,470	11,800	2,880	2,270	2,910
MIN	1,280	3,940	5,750	2,550	1,990	2,330	2,120	3,440	2,120	1,320	1,260	1,350
AC-FT	158,600	586,600	641,600	635,100	254,700	289,300	289,400	286,600	310,500	119,900	98,560	133,700

CAL YR 1973 TOTAL 1,202,815 MEAN 3,295 MAX 14,800 MIN 787 AC-FT 2,386,000
WTR YR 1974 TOTAL 1,918,120 MEAN 5,255 MAX 18,700 MIN 1,260 AC-FT 3,805,000

14185000 SOUTH SANTIAM RIVER BELOW CASCADIA, OREG.

LOCATION.--Lat 44°23'35", long 122°30'35", in SE¼ sec.36, T.13 S., R.2 E., Linn County, on right bank 100 ft (30 m) downstream from bridge at Cascadia ranger station, 0.5 mi (0.8 km) downstream from Mouse Creek, 0.5 mi (0.8 km) upstream from Deer Creek, 1.5 mi (2.4 km) southwest of Cascadia, and at mile 48.5 (78.0 km).

DRAINAGE AREA.--174 mi^2 (451 km^2), at gaging cable 0.7 mi (1.1 km) upstream.

PERIOD OF RECORD.--September 1935 to current year. Monthly discharge only September 1935, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 759.88 ft (231.611 m) above mean sea level. Prior to Nov. 1, 1935, nonrecording gage.

AVERAGE DISCHARGE.--39 years, 834 ft^3/s (23.6 m^3/s), 65.09 in/yr (1,653 mm/yr), 604,200 acre-ft/yr (745 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 17,600 ft^3/s (498 m^3/s) Jan. 15, gage height, 14.92 ft (4.548 m); minimum, 38 ft^3/s (1.08 m^3/s) Sept. 25-27, 29, 30.
Period of record: Maximum discharge, 27,600 ft^3/s (782 m^3/s) Dec. 22, 1964, gage height, 19.68 ft (5.998 m), from rating curve extended above 14,000 ft^3/s (396 m^3/s); minimum, 23 ft^3/s (0.65 m^3/s) Dec. 1, 2, 1936.

REMARKS.--Records good. No regulation or diversion above station. All records given herein are for measuring site. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	1,960	1,800	1,600	2,600	1,410	3,010	1,130	930	412	108	54
2	130	1,030	1,600	1,320	1,700	1,320	2,680	990	1,060	361	103	52
3	120	725	1,500	1,100	1,230	1,090	2,090	937	1,100	330	100	49
4	110	697	1,400	955	1,910	1,040	1,670	957	1,930	320	97	50
5	100	878	1,300	815	1,560	2,060	1,510	1,130	3,300	325	92	50
6	110	1,280	1,420	773	1,110	2,400	1,600	1,350	2,020	315	89	49
7	130	1,170	4,940	704	887	1,400	1,470	1,400	1,510	287	86	48
8	110	2,270	3,330	633	770	1,040	1,330	1,410	1,240	287	83	47
9	100	4,440	2,110	591	753	874	1,350	1,290	1,110	315	82	53
10	95	4,640	1,690	570	743	827	1,320	1,090	1,100	301	77	57
11	90	4,430	1,620	522	721	880	2,050	1,150	1,190	325	73	53
12	95	5,610	1,690	647	659	1,060	2,410	1,640	1,240	270	72	49
13	85	3,800	2,020	1,560	570	997	1,670	1,240	1,190	249	72	46
14	80	2,980	1,940	3,340	639	2,520	1,370	1,090	1,130	241	73	45
15	75	4,130	2,130	13,800	705	4,750	1,230	1,070	1,010	233	70	44
16	70	5,790	2,690	9,870	1,290	3,590	1,090	1,100	899	219	68	44
17	65	3,180	5,090	5,450	1,280	3,780	1,040	1,020	899	215	66	43
18	65	2,050	3,340	3,900	2,070	2,490	1,100	1,010	899	215	66	42
19	65	1,510	2,230	4,390	4,740	1,840	1,050	1,080	839	208	88	42
20	100	1,610	2,650	2,540	2,520	1,520	997	1,030	732	198	100	41
21	240	1,680	3,770	1,700	1,780	1,310	963	950	666	185	79	41
22	240	1,500	2,700	1,310	1,400	1,180	1,070	924	646	173	70	40
23	180	1,450	2,410	1,250	1,160	1,070	1,100	924	594	164	65	39
24	320	1,760	2,390	1,120	1,000	997	1,040	963	540	158	64	39
25	440	1,490	3,380	1,240	963	1,040	1,080	1,080	510	150	61	38
26	340	1,400	2,220	1,400	1,030	1,180	970	1,300	469	143	59	38
27	260	1,800	3,120	1,400	997	1,340	911	1,290	424	138	57	38
28	300	2,400	3,870	1,430	1,430	2,030	887	1,150	406	132	56	39
29	360	2,400	3,710	1,190	------	2,580	899	1,010	406	126	55	38
30	254	2,000	3,090	1,080	------	3,700	1,050	887	430	120	55	38
31	1,740	------	2,130	1,810	------	3,060	------	868	------	113	55	------
TOTAL	6,609	72,090	79,280	70,060	38,217	56,375	42,007	34,460	30,419	7,228	2,341	1,346
MEAN	213	2,403	2,557	2,260	1,365	1,819	1,400	1,112	1,014	233	75.5	44.9
MAX	1,740	5,790	5,090	13,800	4,740	4,750	3,010	1,640	3,300	412	108	57
MIN	65	697	1,300	522	570	827	887	868	406	113	55	38
CFSM	1.22	13.8	14.7	13.0	7.84	10.5	8.05	6.39	5.83	1.34	.43	.26
IN.	1.41	15.41	16.95	14.98	8.17	12.05	8.98	7.37	6.50	1.55	.50	.29
AC-FT	13,110	143,000	157,300	139,000	75,800	111,800	83,320	68,350	60,340	14,340	4,640	2,670

CAL YR 1973 TOTAL 278,360 MEAN 763 MAX 5,790 MIN 42 CFSM 4.39 IN 59.51 AC-FT 552,100
WTR YR 1974 TOTAL 440,432 MEAN 1,207 MAX 13,800 MIN 38 CFSM 6.94 IN 94.16 AC-FT 873,600

NOTE.--No gage-height record Oct. 1-30.

PEAK DISCHARGE (BASE, 5,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1400	9.20	6,200	1-15	1330	14.92	17,600
11-16	0800	9.62	6,860	2-19	0200	9.31	6,380
12-17	0900	9.24	6,260				

14185800 MIDDLE SANTIAM RIVER NEAR CASCADIA, OREG.

LOCATION.—Lat 44°30'55", long 122°22'15", in NE¼ sec.19, T.12 S., R.4 E., Linn County, on right bank 5.6 mi (9.0 km) downstream from Bear Creek, 10 mi (16 km) northeast of Cascadia, and at mile 17.5 (28.2 km).

DRAINAGE AREA.—104 mi² (269 km²).

PERIOD OF RECORD.—August 1963 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 1,040 ft (320 m), from topographic map.

AVERAGE DISCHARGE.—11 years, 671 ft³/s (9.01 m³/s), 87.62 in/yr (2,226 mm/yr), 486,100 acre-ft/yr (599 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 9,200 ft³/s (261 m³/s) Jan. 15, gage height, 10.11 ft (3.082 m); minimum, 37 ft³/s (1.05 m³/s) Sept. 30.

Period of record: Maximum discharge, 22,900 ft³/s (649 m³/s) Dec. 22, 1964, gage height, 15.75 ft (4.801 m), from floodmark, from rating curve extended above 7,000 ft³/s (198 m³/s) on basis of slope-area measurement of peak flow; minimum, 33 ft³/s (0.93 m³/s) Sept. 28, 29, 1967.

REMARKS.—Records excellent. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	2,080	1,700	1,390	2,270	750	2,170	1,060	929	360	112	66
2	126	1,040	1,420	1,080	1,570	765	1,990	941	1,100	320	109	65
3	118	730	1,250	884	1,180	666	1,630	878	1,150	300	105	63
4	109	629	1,100	750	1,250	620	1,320	900	1,930	280	102	63
5	100	588	952	647	1,000	1,050	1,220	1,130	2,760	280	100	63
6	109	615	1,140	588	829	1,250	1,380	1,370	1,790	280	96	62
7	130	611	4,550	558	725	861	1,270	1,440	1,390	260	93	60
8	107	1,240	2,860	495	662	681	1,150	1,470	1,130	240	91	62
9	96	2,870	1,800	445	647	588	1,120	1,340	1,040	280	90	71
10	91	3,520	1,410	437	647	554	1,030	1,160	1,070	260	87	71
11	88	3,590	1,360	408	643	571	1,450	1,320	1,220	286	85	65
12	90	4,270	1,330	468	620	638	1,570	1,680	1,300	243	82	60
13	85	2,900	1,360	1,140	571	606	1,240	1,270	1,270	224	82	56
14	80	2,310	1,330	2,270	606	807	1,060	1,100	1,210	214	82	55
15	76	2,700	1,660	7,280	662	2,160	994	1,000	1,080	209	80	55
16	73	3,650	2,450	6,240	1,100	2,290	912	935	935	199	78	54
17	69	2,290	4,060	3,990	1,140	2,890	900	845	941	204	76	50
18	66	1,560	2,740	3,080	1,050	2,040	988	791	946	199	76	47
19	66	1,140	1,830	3,430	3,140	1,530	952	776	856	189	93	49
20	114	1,130	2,490	2,210	1,910	1,250	895	755	750	178	93	44
21	211	1,010	3,370	1,570	1,370	1,070	878	730	700	171	80	49
22	209	878	2,560	1,260	1,100	970	994	765	600	162	79	43
23	178	850	2,460	1,160	872	878	1,030	791	550	156	91	44
24	333	878	2,410	1,010	760	834	970	845	500	150	87	43
25	419	906	2,980	1,160	730	889	958	1,000	480	144	82	42
26	307	818	1,980	1,120	750	1,050	867	1,270	440	138	79	42
27	245	1,250	3,460	1,000	681	1,200	802	1,270	400	134	76	42
28	316	2,130	4,090	1,010	755	1,740	771	1,140	380	130	74	39
29	352	2,140	3,720	988	------	2,160	781	988	360	128	71	39
30	283	1,850	2,940	1,130	------	2,680	970	856	380	124	69	39
31	2,740	------	1,920	1,820	------	2,280	------	823	------	118	68	------
TOTAL	7,526	52,173	70,702	51,018	29,240	38,318	34,262	32,639	29,587	6,560	2,668	1,603
MEAN	243	1,739	2,281	1,646	1,044	1,236	1,142	1,053	986	212	86.1	53.4
MAX	2,740	4,270	4,550	7,280	3,140	2,890	2,170	1,680	2,760	360	112	71
MIN	66	588	952	408	571	554	771	730	360	118	68	39
CFSM	2.34	16.7	21.9	15.8	10.0	11.9	11.0	10.1	9.48	2.04	.83	.51
IN.	2.69	18.66	25.29	18.25	10.46	13.71	12.26	11.67	10.58	2.35	.95	.57
AC-FT	14,930	103,500	140,200	101,200	58,000	76,000	67,960	64,740	58,690	13,010	5,290	3,180

CAL YR 1973 TOTAL 235,064 MEAN 644 MAX 4,550 MIN 38 CFSM 6.19 IN 84.08 AC-FT 466,200
WTR YR 1974 TOTAL 356,296 MEAN 976 MAX 7,280 MIN 39 CFSM 9.38 IN 127.44 AC-FT 706,700

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1700	8.24	5,920	12-17	0830	7.54	4,860
11-12	0930	7.35	4,580	12-28	2400	7.78	5,210
12- 7	1130	8.40	6,180	1-15	1300	10.11	9,200

14183900 QUARTZVILLE CREEK NEAR CASCADIA, OREG.

LOCATION.--Lat 44°32'25", long 122°26'05", in NW¼ sec.10, T.12 S., R.3 E., Linn County, on Bureau of Land Management land, on right bank 80 ft (24 m) downstream from Panther Creek, 10 mi (16 km) north of Cascadia, and at mile 6.6 (10.6 km).

DRAINAGE AREA.--99.2 mi² (256.9 km²).

PERIOD OF RECORD.--August 1963 to November 1964 (destroyed by flood of December 1964); October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,030 ft (320 m), from topographic map. Aug. 13, 1963, to Dec. 22, 1964, water-stage recorder on left bank at present datum.

AVERAGE DISCHARGE.--10 years (1963-64, 1965-74), 713 ft³/s (20.19 m³/s), 97.61 in/yr (2,479 mm/yr), 516,600 acre-ft/yr (637 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,000 ft³/s (425 m³/s) Jan. 15, gage height, 14.32 ft (4.365 m); minimum, 26 ft³/s (0.74 m³/s) Sept. 30.

Period of record: Maximum discharge, 22,400 ft³/s (6.34 m³/s) Jan. 20, 1972, gage height, 16.38 ft (4.993 m); minimum, 14 ft³/s (0.40 m³/s) Aug. 19-23, 1973.

Maximum discharge, 36,500 ft³/s (1,030 m³/s) Dec. 22, 1964, from slope-area measurement of peak flow.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	2,490	2,100	1,290	3,330	1,120	2,650	893	669	246	71	39
2	175	1,070	1,770	976	1,860	1,070	2,340	757	856	197	69	38
3	160	712	1,420	802	1,520	838	1,730	696	844	183	67	34
4	151	625	1,260	660	1,560	718	1,320	696	1,630	177	62	39
5	144	555	1,050	528	1,230	1,920	1,270	912	2,390	183	62	38
6	165	605	1,490	483	950	1,770	1,460	1,180	1,360	177	60	38
7	201	655	6,820	420	745	1,070	1,310	1,200	1,010	159	59	37
8	168	1,700	3,220	380	648	734	1,170	1,170	779	162	56	35
9	155	5,100	1,850	344	628	603	1,120	1,040	712	175	56	37
10	144	5,410	1,480	309	680	603	1,020	838	768	167	54	42
11	137	4,250	1,590	288	691	768	1,500	976	912	216	53	39
12	137	4,690	1,700	470	659	918	1,650	1,400	970	172	53	37
13	131	3,160	1,880	3,080	559	826	1,200	1,040	938	147	53	36
14	126	2,620	1,830	4,880	554	1,340	983	826	856	140	53	33
15	122	4,930	2,410	11,600	881	3,360	931	832	740	138	53	33
16	118	5,200	4,190	8,650	2,130	3,190	832	850	578	129	51	33
17	113	2,530	6,110	4,990	1,480	3,360	809	809	613	131	50	31
18	111	1,440	3,220	3,370	2,270	2,040	881	734	608	135	50	31
19	107	1,010	1,950	3,850	4,540	1,550	850	734	574	135	54	31
20	144	1,190	3,860	2,130	2,040	1,280	791	696	440	131	59	30
21	344	1,100	5,070	1,410	1,400	1,100	751	643	380	114	59	30
22	337	928	3,300	1,100	1,080	1,020	856	643	384	106	57	30
23	288	868	3,250	1,020	826	900	856	659	341	102	57	29
24	488	994	2,850	983	696	850	803	701	298	100	54	29
25	630	1,030	3,540	1,250	844	963	785	875	284	90	47	27
26	483	934	2,030	1,310	1,050	1,240	723	1,100	274	90	45	27
27	368	1,860	4,750	1,090	893	1,460	654	1,040	240	88	44	27
28	438	3,740	4,550	1,150	1,100	2,670	633	856	231	88	42	27
29	479	2,980	4,210	1,190	------	3,250	633	718	234	88	42	27
30	380	2,330	3,170	1,440	------	3,390	838	593	268	86	41	27
31	3,890	------	1,900	3,480	------	2,590	------	564	------	74	41	------
TOTAL	11,029	66,706	89,820	64,903	36,944	48,511	33,349	26,671	21,181	4,326	1,674	992
MEAN	356	2,224	2,897	2,094	1,319	1,565	1,112	860	706	140	54.0	33.1
MAX	3,890	5,410	6,820	11,600	4,540	3,390	2,650	1,400	2,390	246	71	42
MIN	107	555	1,050	288	559	603	633	564	231	74	41	27
CFSM	3.59	22.4	29.2	21.1	13.3	15.8	11.2	8.67	7.12	1.41	.54	.33
IN.	4.14	25.01	33.68	24.34	13.85	16.19	12.51	10.00	7.94	1.62	.63	.37
AC-FT	21,880	132,300	178,200	128,700	73,280	96,220	66,150	52,900	42,010	8,580	3,320	1,970

CAL YR 1973 TOTAL 272,093 MEAN 745 MAX 6,820 MIN 14 CFSM 7.51 IN 102.03 AC-FT 539,700
WTR YR 1974 TOTAL 406,106 MEAN 1,113 MAX 11,600 MIN 27 CFSM 11.2 IN 152.29 AC-FT 805,500

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-31	1600	11.84	8,220	12-20	2230	11.00	6,400
11-10	0330	11.38	6,860	12-27	2230	11.07	6,540
11-16	0030	11.14	6,380	1-15	1100	14.32	15,000
11-28	1600	10.14	4,640	1-31	1400	9.86	4,550
12- 7	1030	12.33	9,460	2-18	2400	11.41	7,400
12-17	0730	11.62	7,690				

14186100 GREEN PETER LAKE NEAR FOSTER, OREG.

LOCATION.--Lat 44°27'10", long 122°32'40", in NE¼SE¼ sec.10, T.13 S., R.2 E., Linn County, in Green Peter Dam on Middle Santiam River 7.0 mi (11.3 km) northeast of Foster and at mile 5.7 (9.2 km).

DRAINAGE AREA.--273 mi² (707 km²).

PERIOD OF RECORD.--October 1966 to current year. Prior to October 1971, published as Green Peter Reservoir near Foster.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 410,300 acre-ft (506 hm³) July 11, 19, elevation, 1,010.13 ft (307.888 m); minimum, 163,900 acre-ft (203 hm³) Jan. 11, 12, elevation, 924.86 ft (281.897 m).

Period of record: Maximum contents, 415,300 acre-ft (512 hm³) June 25, 1969, elevation, 1,011.53 ft (308.314 m); minimum, 116,900 acre-ft (144 hm³) Dec. 15, 1972, elevation, 899.20 ft (274.076 m).

REMARKS.--Reservoir is formed by concrete, gravity-type dam with ogee spillway completed in 1966 by Corps of Engineers; controlled storage began Oct. 6, 1966. Total capacity, 428,100 acre-ft (528 hm³) and usable capacity 330,800 acre-ft (408 hm³) between elevations 887.0 ft (270.36 m), proposed lower limit of operation, and 1,015.0 ft (309.37 m), top of spillway gates. Reservoir used for flood control, power development, improvement of navigation, pollution abatement, and other purposes. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-feet)

899	116,600	960	251,100
900	118,300	980	309,700
920	115,700	1,000	374,800
940	199,900	1,012	417,100

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290,400	219,500	231,700	243,000	226,900	275,200	352,000	376,500	403,400	409,800	406,000	385,100
2	287,200	220,900	227,200	229,800	226,800	277,000	354,300	377,100	403,800	409,700	405,300	383,500
3	283,900	220,000	222,000	217,300	224,300	278,000	353,300	376,700	403,900	409,700	404,800	381,900
4	281,000	219,100	215,800	308,600	224,500	278,700	349,200	379,700	406,500	409,700	404,300	380,300
5	277,600	218,800	208,900	202,900	223,300	285,400	344,100	381,900	408,800	409,900	403,600	378,700
6	274,300	219,900	205,800	197,100	222,600	291,200	343,200	385,100	406,500	409,900	403,000	377,100
7	271,000	221,500	228,300	191,000	221,400	290,200	341,900	388,400	403,800	409,800	402,700	375,400
8	267,600	225,700	236,900	184,500	220,000	287,700	339,900	390,500	402,900	410,100	402,400	373,800
9	264,100	239,600	236,600	178,100	222,200	289,700	340,800	391,700	403,200	410,100	402,100	372,200
10	260,600	252,600	234,600	171,800	224,100	291,700	343,900	392,100	403,800	410,200	401,800	370,700
11	257,100	261,700	232,600	165,900	224,400	292,300	349,100	394,800	404,300	410,300	401,500	369,100
12	263,600	275,200	229,400	165,900	224,400	293,400	354,692	398,700	405,100	410,100	401,000	366,500
13	250,000	281,000	223,900	171,600	224,100	294,100	358,200	400,500	405,700	409,900	400,400	363,100
14	246,400	281,900	217,500	183,300	225,000	297,200	360,700	401,300	406,500	409,700	399,700	361,500
15	242,600	292,100	213,200	226,500	228,900	307,500	362,900	401,500	407,700	409,400	399,100	359,800
16	239,000	310,200	217,700	261,000	236,000	313,700	362,700	401,800	409,000	409,700	398,500	358,100
17	235,300	310,300	234,100	281,400	241,800	320,500	363,600	401,700	409,500	410,100	397,900	355,700
18	231,600	299,400	236,700	289,200	249,100	322,400	364,700	402,000	409,600	410,100	397,300	353,300
19	228,000	286,300	227,700	296,600	262,600	323,100	366,600	402,200	408,300	410,300	396,900	350,400
20	224,500	274,200	229,500	291,800	264,400	322,600	368,100	402,700	408,100	410,200	396,300	348,400
21	222,800	262,100	244,000	280,700	263,700	321,100	369,200	402,800	408,200	410,100	395,700	346,700
22	220,400	249,300	246,600	267,900	266,100	319,400	370,900	402,500	408,700	409,900	395,100	345,100
23	217,200	236,600	245,600	255,000	268,900	319,700	371,400	402,700	409,600	409,900	394,600	342,500
24	214,800	227,200	242,700	241,900	271,600	314,600	370,200	403,200	410,000	409,700	394,000	339,800
25	212,800	222,700	244,200	231,200	271,500	320,000	367,100	404,200	409,000	409,600	393,400	337,200
26	210,100	219,900	237,400	228,500	272,300	321,100	366,300	406,500	409,200	409,300	392,800	334,400
27	207,000	220,400	241,500	226,300	272,400	323,200	367,700	408,600	409,300	408,800	392,200	331,700
28	204,600	226,600	251,100	223,900	273,900	329,100	369,600	408,900	409,300	408,300	391,500	329,600
29	202,100	234,700	259,400	221,200	------	335,300	371,600	406,200	409,500	407,700	389,900	327,500
30	199,200	234,500	261,700	219,100	------	343,200	373,900	404,300	409,800	407,200	388,300	324,800
31	210,200	------	254,400	222,600	------	348,200	------	403,700	------	406,600	386,700	------
MAX	290,400	310,300	261,700	308,600	273,900	348,200	373,900	408,900	410,000	410,300	406,000	385,100
MIN	199,200	218,800	205,800	165,900	220,000	275,200	339,900	376,500	402,900	406,600	386,700	324,800
(†)	944.27	953.84	961.33	949.22	968.05	992.07	999.74	1,008.30	1,009.98	1,009.10	1,003.46	986.80
(‡)	-80,200	+24,300	+20,300	-32,200	+51,300	+74,300	+25,700	+29,800	+6,100	-3,200	-19,900	-61,900

WTR YR 1974 MAX 410,300 MIN 165,900 AC-FT‡ +34,400

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14186600 FOSTER LAKE AT FOSTER, OREG.

LOCATION.--Lat 44°25'00", long 122°40'25", in NW¼NE¼ sec.27, T.13 S., R.1 E., Linn County, in Foster Dam on South Santiam River, 0.3 mi (0.5 km) above Wiley Creek, 0.5 mi (0.8 km) north of Foster, and at mile 37.7 (60.7 km).

DRAINAGE AREA.--492 mi² (1,274 km²).

PERIOD OF RECORD.--December 1966 to current year. Prior to October 1971, published as Foster Reservoir at Foster.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 58,520 acre-ft (72.2 hm³) Sept. 25, elevation, 639.18 ft (194.822 m); minimum, 30,190 acre-ft (37.2 hm³) Dec. 4, 5, elevation, 612.01 ft (186.541 m).
Period of record: Maximum contents, 60,090 acre-ft (74.1 hm³) Sept. 17, 1968, elevation, 640.45 ft (195.209 m); minimum, 26,390 acre-ft (32.8 hm³) Nov. 15, 16, 1971, elevation, 607.85 ft (185.273 m).

REMARKS.--Reservoir is formed by rockfill embankment with an impervious core and ogee spillway completed in 1966 by Corps of Engineers; controlled storage began in November 1966. Total capacity, 60,780 acre-ft (74.9 hm³) and usable capacity 33,210 acre-ft (40.9 hm³) between elevations 609.0 ft (185.52 m), proposed lower limit of operation, and 641.0 ft (195.38 m), top of spillway gates. Reservoir used for reregulation of water released from Green Peter Reservoir, flood control, power development, pollution abatement, and other purposes. Figures given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

Capacity table (elevation, in feet, and total contents, in acre-ft)

607	25,880	630	47,860
610	28,430	635	53,510
615	32,870	640	59,530
620	37,570	641	60,780
625	42,550		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.350	37.670	31.080	31.150	31.160	42,140	46.160	52,810	56.330	56.980	56.690	55.540
2	54.480	37.090	31.080	31.150	31.130	40.590	46.350	53,030	56.270	56.840	56.630	55.570
3	53,710	36.840	31.050	31.160	31,160	39.820	46.290	53.400	56.670	56.810	56.440	55.610
4	52.580	36.620	30,190	31.100	38,110	40,280	46.740	54.220	56.340	56.760	56.230	55.660
5	51.930	36.220	30,190	31.170	41.680	41.060	47.090	54.170	55.900	56,760	56.180	55.720
6	51.360	35.830	30.570	31.220	43.290	40.620	47.410	54.200	55,960	56.740	56.110	55,780
7	50.830	34.180	31.520	31.170	42,470	40,460	47.530	54.460	55,960	56.640	55,820	55,820
8	50.250	34.980	30.900	31.130	40.980	42,320	47.870	54.830	55.860	56.670	55,500	55,870
9	49,660	34.830	30,990	31.100	40.440	40.600	47,980	54.520	55.880	56.790	55,200	55,990
10	49.040	33.910	31.110	31.240	40.440	40.540	47.670	54.600	55.840	56.910	54.870	56,040
11	48,440	33,420	31.090	31.210	40.330	40.960	49.660	54.850	55.200	56.860	54,540	56,030
12	47.860	32.830	31.080	31.230	40.630	40,430	50.550	54,970	56,970	56,740	54.340	56,920
13	47.200	32.420	31.120	31.860	40.740	40.740	49.100	54.540	57,370	56.760	54.310	58.090
14	46.620	32.020	31.100	32.130	41.180	40,770	49.560	55.100	57.200	56.770	54.270	57.330
15	46.090	31.410	31.130	40.450	40.580	40.920	49.980	55.480	55.800	56.790	54,240	56.550
16	45.550	31,020	31.340	42.620	41.060	40,690	52.630	55.710	55.200	56.710	54.210	55.820
17	45.090	30,900	31,740	35.850	40.580	40.500	53,300	55.680	56.710	56.620	54.180	55,930
18	44.670	30.950	31.090	31,360	40.950	40.460	53.430	55.130	57,620	56.710	54.180	56.020
19	44.200	31.030	31.070	31.140	40,580	40,700	52.630	55.870	58.440	56.810	54.320	56.100
20	43,860	31.130	31.080	31.170	40,460	40.460	52.470	55.750	57.110	56,710	54.440	56.170
21	42,900	31,120	31,240	31.180	40,670	40.500	52.600	55.850	56.680	56.590	54.520	56,300
22	42,440	31.090	30.870	31.150	40.600	40.610	52,650	56.530	56.980	56.650	54,540	56,290
23	42,280	31.120	31.040	31.090	40.510	40.570	53.460	56.530	57.040	56.640	54.580	57.200
24	41.890	31,440	31,760	31.120	40.440	40.650	52,410	56.270	56,910	56.640	54,580	57,950
25	41.650	31.170	31,750	31.210	40,790	40,590	52,370	56.140	57.430	56.620	54,590	58.520
26	41,000	31,060	30.850	31.280	41,020	40.850	52,000	56.370	56.870	56,710	54,610	58,440
27	40.250	31.440	31,480	31.240	40,770	41,330	52.650	56.320	57.030	56.850	54.670	58.360
28	39,460	31.310	31.260	31,080	41.440	43.270	52.490	56.390	57.030	56.810	54,720	57,170
29	38.950	30,890	31,230	31,080	-------	43,770	52.330	56,410	56.850	56.770	55,730	55.850
30	38.380	31.050	31.210	31.130	-------	45.460	53,000	56,440	56.840	56.750	55.500	55.060
31	39,140	-------	31.190	31.280	-------	45.900	-------	56.420	-------	56.710	55.480	-------
MAX	55,350	37.670	31,760	42.620	43,290	45,900	53.460	56.530	58.440	56,980	56.690	58,520
MIN	38,380	30,890	30,190	31,080	31.130	39,820	46,160	52,810	55.200	56.590	54.180	55.060
(†)	621.61	612.98	613.14	613.24	623.92	628.19	634.56	637.46	637.80	637.70	636.67	636.32
(‡)	-17,650	-8,090	+140	+90	+10,160	+4,460	+7,100	+3,420	+420	-130	-1,230	-420

WTR YR 1974 MAX 58,520 MIN 30,190 AC-FT ‡ -1,730

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

14187100 WILEY CREEK AT FOSTER, OREG.

LOCATION.--Lat 44°23'55", long 122°39'35", in SW¼NW¼ sec.35, T.13 S., R.1 E., Linn County, on right bank 1.5 mi (2.4 km) downstream from Jackson Creek, 1.0 mi (1.6 km) southeast of Foster, and at mile 1.4 (2.3 km).

DRAINAGE AREA.--62.3 mi^3 (161.4 km^2).

PERIOD OF RECORD.--October 1973 to current year. Records for October 1947 to July 1973 (published as Wiley Creek near Foster, station 14187000) at site 3.0 mi (4.8 km) upstream not equivalent owing to inflow between sites.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (179.8 m), from topographic map. Prior to May 2, 1974, at present site at datum 5.00 ft (1.524 m) lower.

EXTREMES.--Current year: Maximum discharge, 6,320 ft^3/s (179 m^3/s) Jan. 15, gage height, 9.28 ft (2.829 m); minimum, 3.1 ft^3/s (0.088 m^3/s) Oct. 19.

REMARKS.--Records good except for October to January, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	274	896	481	1,110	723	1,060	250	111	36	16	8.7
2	6.1	137	744	375	803	638	941	195	108	37	16	8.3
3	5.5	89	653	310	613	523	810	207	103	34	19	7.2
4	4.9	140	552	258	918	504	657	182	172	33	14	7.2
5	4.7	210	475	220	807	921	564	187	377	36	13	7.2
6	6.1	309	485	200	603	1,100	529	192	273	36	13	7.2
7	8.2	296	1,130	186	483	706	477	190	212	33	13	6.8
8	5.5	530	862	174	410	504	416	177	177	38	13	6.2
9	4.4	1,340	665	170	362	410	447	165	156	49	12	7.9
10	4.2	1,360	512	160	329	380	450	151	141	41	12	10
11	4.2	1,110	454	153	307	402	730	165	127	60	12	8.3
12	5.2	1,520	475	189	295	507	782	231	113	37	12	7.2
13	4.9	1,140	704	414	292	489	570	192	88	32	12	6.5
14	4.0	1,120	726	921	297	968	444	192	98	30	12	6.8
15	3.6	1,550	692	4,770	305	1,390	380	204	97	28	12	5.9
16	3.4	1,990	810	3,600	573	1,070	329	270	91	28	11	5.6
17	3.4	1,010	1,560	1,960	597	1,020	302	259	83	28	11	5.6
18	3.2	721	1,280	1,360	854	761	295	245	74	28	11	5.9
19	3.2	540	890	1,290	1,500	582	280	252	70	29	16	5.6
20	11	715	1,000	925	883	465	270	259	66	27	17	5.6
21	73	798	1,210	686	696	388	260	228	61	26	15	5.6
22	52	682	977	517	540	339	250	209	57	24	13	5.1
23	32	633	905	486	453	307	250	192	57	24	11	4.9
24	38	665	831	430	383	295	280	182	52	24	11	4.6
25	49	660	921	453	385	295	324	174	52	22	9.6	4.4
26	32	626	697	459	477	300	295	170	54	21	9.2	4.4
27	19	744	817	520	507	334	250	160	50	20	8.7	4.4
28	52	1,240	945	520	771	680	230	149	46	19	7.9	4.6
29	61	1,480	1,060	433	------	854	220	139	41	18	7.9	4.9
30	41	1,060	898	413	------	1,250	230	127	38	18	8.3	4.9
31	234	------	661	764	------	1,040	------	116	------	17	8.7	------
TOTAL	786.1	24,689	25,487	23,797	16,553	20,145	13,322	6,011	3,245	933	377.3	187.5
MEAN	25.4	823	822	768	591	650	444	194	108	30.1	12.2	6.25
MAX	234	1,990	1,560	4,770	1,500	1,390	1,060	270	377	60	19	10
MIN	3.2	89	454	153	292	295	220	116	38	17	7.9	4.4
CFSM	.41	13.2	13.2	12.3	9.49	10.4	7.13	3.11	1.73	.48	.20	.10
IN.	.47	14.74	15.22	14.21	9.88	12.03	7.95	3.59	1.94	.56	.23	.11
AC-FT	1,560	48,970	50,550	47,200	32,830	39,960	26,420	11,920	6,440	1,850	748	372

WTR YR 1974 TOTAL 135,532.9 MEAN 371 MAX 4,770 MIN 3.2 CFSM 5.96 IN 80.93 AC-FT 268,800

PEAK DISCHARGE (BASE, 2,800 CFS).--Jan. 15 (0930) 6,320 cfs (9.28 ft).

14187200 SOUTH SANTIAM RIVER NEAR FOSTER, OREG.

LOCATION.--Lat 44°24'45", long 122°41'15", in SE¼NE¼ sec.28, T.13 S., R.1 E., Linn County, on left bank 0.6 mi (1.0 km) downstream from Wiley Creek and at mile 37.0 (59.5 km).

DRAINAGE AREA.--557 mi^2 (1,443 km^2).

PERIOD OF RECORD.--August 1973 to current year. Records for October 1966 to July 1973 (published as South Santiam River at Foster, station 14186700) at site 0.5 mi (0.8 km) upstream not equivalent owing to inflow between sites.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 16,900 ft^3/s (479 m^3/s) Jan. 15, gage height, 16.07 ft (4.898 m); minimum, 446 ft^3/s (12.6 m^3/s) July 16.
Period of record: Maximum discharge, 16,900 ft^3/s (479 m^3/s) Jan. 15, 1974, gage height, 16.07 ft (4.898 m); minimum, 446 ft^3/s (12.6 m^3/s) July 16, 1974.

REMARKS.--Records excellent. Flow regulated since 1966 by Green Peter Lake (see station 14186100) and by Foster Lake (see station 14186600). Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	3,420	11,000	12,200	9,510	4,280	8,860	2,440	3,080	1,080	657	988
2	2,350	3,220	9,990	12,000	8,040	4,970	8,800	2,870	3,240	1,110	666	988
3	2,300	3,140	9,490	10,700	7,150	4,030	8,680	2,220	3,240	938	666	988
4	2,310	3,260	9,590	8,210	4,430	3,670	8,300	1,910	5,060	871	657	988
5	2,330	3,440	8,610	5,780	5,250	5,460	8,570	2,550	9,010	871	649	988
6	2,350	3,480	7,220	5,610	4,490	6,780	6,570	2,820	7,430	871	577	988
7	2,370	3,650	8,240	5,560	5,130	6,290	6,190	2,750	6,210	871	539	988
8	2,380	4,630	7,820	5,490	5,060	4,580	5,840	3,200	4,240	842	554	988
9	2,370	8,300	7,770	5,280	2,420	3,370	4,710	3,750	3,260	852	547	999
10	2,400	10,700	7,030	5,060	2,220	2,210	3,670	3,260	3,180	833	547	1,030
11	2,400	10,500	6,950	4,910	3,010	2,990	3,710	2,720	3,200	968	547	1,040
12	2,400	12,000	7,960	2,020	2,700	3,930	4,840	3,390	3,260	958	547	1,050
13	2,420	10,500	10,400	3,030	2,750	3,370	4,880	3,240	3,260	796	547	1,380
14	2,380	11,300	10,800	6,370	2,280	6,490	3,240	3,150	3,260	796	547	1,390
15	2,350	11,300	10,800	14,400	1,730	9,600	2,990	3,370	3,150	787	547	1,400
16	2,330	9,690	10,100	14,000	2,190	9,570	2,650	3,600	2,410	517	547	1,390
17	2,300	10,900	11,500	12,700	2,780	9,800	2,850	3,580	1,680	517	532	1,380
18	2,260	12,800	11,400	12,800	5,020	7,900	3,150	3,580	2,250	532	517	1,390
19	2,310	12,100	13,100	11,700	10,400	6,320	3,200	2,920	2,780	532	550	1,400
20	2,310	12,600	11,400	12,400	8,540	5,940	2,880	3,100	2,820	625	510	1,390
21	2,380	13,200	7,580	12,800	7,150	5,410	2,620	2,880	1,940	601	502	999
22	2,380	12,800	10,100	12,500	4,190	5,130	2,780	2,800	1,220	524	517	978
23	2,470	12,600	11,300	12,600	2,820	3,730	3,110	2,780	1,290	524	517	988
24	2,700	11,400	11,300	12,300	2,280	3,480	4,620	2,990	1,340	510	517	1,170
25	2,740	9,160	11,900	11,900	3,690	3,600	5,510	2,950	1,750	517	510	1,240
26	2,850	7,660	12,300	7,790	4,030	3,600	4,030	2,970	1,500	524	502	1,560
27	2,810	7,820	12,500	7,560	4,130	3,750	1,930	3,100	1,110	609	481	1,570
28	2,850	10,600	11,000	7,700	4,430	4,210	1,950	3,420	1,140	699	481	1,800
29	2,890	10,400	10,600	7,150	------	6,570	1,970	4,550	1,150	682	481	1,900
30	2,810	11,100	10,900	6,940	------	8,450	1,900	3,790	1,070	674	1,120	1,940
31	3,180	------	11,800	8,010	------	8,070	------	2,940	------	666	1,080	------
TOTAL	75,780	267,670	312,450	277,470	127,820	167,550	134,950	95,590	89,530	22,697	18,158	37,288
MEAN	2,445	8,922	10,080	8,951	4,565	5,405	4,498	3,084	2,984	732	586	1,243
MAX	3,180	13,200	13,100	14,400	10,400	9,800	8,860	4,550	9,010	1,110	1,120	1,940
MIN	1,100	3,140	6,950	2,020	1,730	2,210	1,900	1,910	1,070	510	481	978
AC-FT	150,300	530,900	619,700	550,400	253,500	332,300	267,700	189,600	177,600	45,020	36,020	73,960

WTR YR 1974 TOTAL 1,626,953 MEAN 4,457 MAX 14,400 MIN 481 AC-FT 3,227,000

14187500 SOUTH SANTIAM RIVER AT WATERLOO, OREG.

LOCATION.--Lat 44°29'55", long 122°49'20", in SW¼NW¼ sec.28, T.12 S., R.1 W., Linn County, on left bank 0.1 mi (0.2 km) downstream from highway bridge at Waterloo, 2.1 mi (3.4 km) upstream from Hamilton Creek, and at mile 23.3 (37.5 km).

DRAINAGE AREA.--640 mi² (1,658 km²).

PERIOD OF RECORD.--July 1905 to March 1907, October 1910 to December 1911 (gage heights only January to December 1911), July 1923 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as South Fork of Santiam River at Waterloo 1905-7, 1910-11.

GAGE.--Water-stage recorder. Datum of gage is 370.39 ft (112.895 m) above mean sea level. Prior to Dec. 31, 1911, nonrecording gage at site 0.5 mi (0.8 km) downstream at datum about 5.0 ft (1.52 m) lower. July 1, 1923, to Nov. 12, 1934, nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.--52 years (1905-6, 1923-74), 2,950 ft³/s (83.5 m³/s), 2,137,000 acre-ft/yr (2.63 km³/yr).

EXTREMES.--Current year: Maximum discharge, 20,500 ft³/s (581 m³/s) Jan. 15, gage height, 10.58 ft (3.225 m); minimum, 460 ft³/s (13.0 m³/s) Aug. 28, 29.
Period of record: Maximum discharge, 95,200 ft³/s (2,696 m³/s) Dec. 22, 1964, gage height, 24.50 ft (7.468 m); minimum, 61 ft³/s (1.73 m³/s) Oct. 12, 1966.

REMARKS.--Records good. Flow regulated since October 1966 by Green Peter Lake (see station 14186100) and since December 1966 by Foster Lake (see station 14186600). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1248: 1907, 1924-30, 1932.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	940	3.540	11.400	11.900	9.640	4.930	9.500	2.510	3.110	1.050	636	984
2	2.340	3.300	10.300	11.800	8.320	5.600	9.500	2.920	3.250	1.050	645	973
3	2.430	3.230	9.670	10.600	7.340	4.620	9.500	2.500	3.270	950	645	973
4	2.450	3.360	9.640	6.490	5.840	4.160	9.500	2.000	5.000	900	636	973
5	2.450	3.540	8.770	5.990	5.480	5.680	9.500	2.500	8.660	870	627	973
6	2.450	3.630	7.730	5.770	4.730	7.930	7.000	3.000	7.160	880	591	973
7	2.450	3.720	9.160	5.700	5.260	6.540	6.500	3.000	6.080	870	515	973
8	2.450	4.560	8.270	5.630	5.680	5.800	6.000	3.600	4.280	850	531	973
9	2.430	7.910	8.270	5.420	3.090	4.500	4.910	4.200	3.300	860	523	984
10	2.460	11.400	7.410	5.220	2.580	2.800	4.200	3.800	3.210	840	531	1.010
11	2.460	10.700	7.210	5.020	3.160	3.200	4.100	3.400	3.210	920	531	1.020
12	2.480	12.500	8.020	2.790	2.990	4.800	5.110	3.800	3.270	995	531	1.030
13	2.500	11.200	10.600	3.340	2.990	4.200	5.280	3.600	3.270	790	531	1.260
14	2.480	11.400	11.000	6.420	2.620	7.000	3.690	3.500	3.270	780	531	1.410
15	2.460	12.600	10.400	16.600	2.120	10.400	3.270	3.800	3.180	770	531	1.390
16	2.450	10.900	10.700	16.700	2.530	10.400	2.980	4.000	2.480	573	531	1.380
17	2.430	11.000	12.400	13.700	3.090	10.400	2.940	4.000	1.720	515	523	1.380
18	2.420	12.900	11.600	13.400	5.260	8.500	3.360	4.000	2.210	523	515	1.390
19	2.430	12.100	13.100	12.000	11.000	7.000	3.410	3.200	2.810	523	515	1.400
20	2.450	12.500	12.200	12.200	8.860	6.500	3.160	3.400	2.860	600	507	1.390
21	2.510	13.300	8.740	12.500	7.570	5.800	2.820	3.100	2.000	582	491	1.060
22	2.510	12.800	10.400	12.200	4.910	5.400	2.940	2.900	1.260	515	499	973
23	2.540	12.500	11.500	12.200	3.430	5.000	3.250	2.970	1.300	507	507	973
24	2.750	11.600	11.400	11.900	2.770	4.500	4.580	3.040	1.340	491	507	1.110
25	2.820	9.560	11.900	11.700	3.940	4.500	5.600	3.040	1.690	491	499	1.180
26	2.910	8.070	12.100	8.130	4.690	4.500	4.440	3.030	1.560	499	491	1.560
27	2.910	7.990	12.600	7.650	4.820	4.500	2.150	3.150	1.030	555	475	1.590
28	2.940	10.600	11.200	7.830	5.260	4.800	2.110	3.430	1.100	664	468	1.780
29	3.010	11.800	10.700	7.310	------	6.500	2.170	4.520	1.050	664	468	1.900
30	2.910	11.600	10.800	7.020	------	9.000	2.020	3.820	1.050	645	962	1.970
31	3.130	------	11.600	7.880	------	9.000	------	2.990	------	636	1.110	------
TOTAL	78.350	275.860	321.290	285.010	139.990	188.460	145.490	102.720	69.000	22.358	17.603	36.935
MEAN	2.527	9.195	10.360	9.194	5.000	6.079	4.850	3.314	2.967	721	568	1.231
MAX	3.130	13.300	13.100	16.700	11.000	10.400	9.500	4.520	8.660	1.050	1.110	1.970
MIN	940	3.230	7.210	2.790	2.120	2.800	2.020	2.000	1.030	491	468	973
AC-FT	155.400	547.200	637.300	565.300	277.700	373.800	288.600	203.700	176.500	44.350	34.920	73.260

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CAL YR 1973   TOTAL 1.080.556   MEAN 2.960   MAX 13.300   MIN 627   AC-FT 2.143.000
WTR YR 1974   TOTAL 1.703.066   MEAN 4.666   MAX 16.700   MIN 468   AC-FT 3.378.000
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NOTE.--No gage-height Mar. 7 to Apr. 9.

14188800 THOMAS CREEK NEAR SCIO, OREG.

LOCATION.--Lat 44°42'42", long 122°45'55", in SE¼SE¼ sec.11, T.10 S., R.1 W., Linn County, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 226, 1.6 mi (2.6 km) upstream from Mill Creek, 4.2 mi (6.8 km) east of Scio, and at mile 14.6 (23.5 km).

DRAINAGE AREA.--109 mi^2 (282 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 380.84 ft (116.080 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 524 ft^3/s (14.8 m^3/s), 65.28 in/yr (1,658 mm/yr), 379,600 acre-ft/yr (468 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 ft^3/s (357 m^3/s) Jan. 15, gage height, 13.54 ft (4.127 m); minimum 12 ft^3/s (0.34 m^3/s) Sept. 26.

Period of record: Maximum discharge, 27,400 ft^3/s (776 m^3/s) Dec. 22, 1964, gage height, 18.44 ft (5.621 m), from rating curve extended above 7,200 ft^3/s (204 m^3/s), on basis of slope-area measurement of peak flow; maximum gage height, 19.58 ft (5.968 m) Jan. 21, 1972, backwater from debris; minimum discharge, 7.8 ft^3/s (0.22 m^3/s) Aug. 20, 1967.

REMARKS.--Records excellent. No regulation. Several small diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WRD Oreg. 1971: 1965(P), 1966(P), 1969(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	1,180	1,720	1,020	2,080	1,300	1,630	357	226	69	30	23
2	85	575	1,300	800	1,310	1,140	1,450	322	239	69	30	23
3	76	406	1,170	650	991	942	1,180	298	233	63	29	20
4	70	620	956	555	1,490	835	975	293	351	60	30	23
5	67	640	830	458	1,170	1,790	905	313	611	72	30	21
6	80	710	1,140	414	910	1,910	910	344	421	70	26	21
7	119	665	4,090	376	748	1,160	840	335	341	61	27	20
8	85	956	2,170	337	640	889	733	325	287	63	27	20
9	73	2,530	1,370	307	566	728	861	301	262	104	27	29
10	68	2,520	1,020	286	510	690	867	293	247	93	27	33
11	64	2,420	914	262	464	778	1,000	410	242	91	26	27
12	64	2,920	1,140	373	432	1,080	969	535	233	73	25	23
13	62	2,480	1,690	1,290	395	905	778	410	217	63	27	22
14	57	2,480	1,470	2,560	544	1,190	665	448	200	57	27	19
15	55	4,290	1,660	9,500	544	2,230	597	489	184	52	27	18
16	53	4,700	2,910	7,650	1,080	1,850	531	518	162	53	27	19
17	50	2,290	4,140	3,860	1,040	1,740	497	464	151	112	25	18
18	48	1,460	2,350	2,440	1,820	1,180	497	452	142	119	27	17
19	47	1,000	1,580	2,270	3,030	937	464	444	132	94	45	17
20	59	1,430	2,610	1,510	1,590	783	456	414	121	78	44	16
21	135	1,950	3,710	1,100	1,250	670	425	381	110	69	33	17
22	137	1,620	2,420	916	1,030	593	414	364	107	58	29	17
23	129	1,370	2,430	910	840	522	403	344	104	52	27	15
24	178	1,460	1,980	824	714	480	361	335	91	49	27	15
25	214	1,660	2,010	916	910	497	472	347	91	45	27	14
26	180	1,460	1,420	861	1,200	531	399	351	96	44	23	13
27	147	1,980	2,740	878	1,130	675	367	322	107	40	20	16
28	247	3,500	2,710	883	1,610	1,690	344	293	96	40	20	17
29	259	3,380	2,580	835	------	1,790	328	268	79	39	21	17
30	198	2,300	2,060	808	------	2,250	354	244	73	35	21	17
31	1,190	------	1,420	1,620	------	1,690	------	229	------	32	21	------
TOTAL	4,390	56,952	61,710	47,469	30,038	35,445	20,672	11,243	5,956	2,019	852	587
MEAN	142	1,898	1,991	1,531	1,073	1,143	689	363	199	65.1	27.5	19.6
MAX	1,190	4,700	4,140	9,500	3,030	2,250	1,630	535	611	119	45	33
MIN	47	406	830	262	395	480	328	229	73	32	20	13
CFSM	1.30	17.4	18.3	14.0	9.84	10.5	6.32	3.33	1.83	.60	.25	.18
IN.	1.50	19.44	21.06	16.20	10.25	12.10	7.06	3.84	2.03	.69	.29	.20
AC-FT	8,710	113,000	122,400	94,150	59,580	70,310	41,000	22,300	11,810	4,000	1,690	1,160

CAL YR 1973 TOTAL 203,698 MEAN 558 MAX 4,700 MIN 15 CFSM 5.12 IN 69.52 AC-FT 404,000
WTR YR 1974 TOTAL 277,333 MEAN 760 MAX 9,500 MIN 13 CFSM 6.97 IN 94.65 AC-FT 550,100

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0100	10.14	6,400	12-20	2300	9.12	5,040
11-28	1830	8.87	4,740	12-27	2130	8.27	4,050
12- 7	1000	9.84	5,980	1-15	2130	13.54	12,600
12-17	0730	9.14	5,070	2-18	2300	9.41	5,400

14189000 SANTIAM RIVER AT JEFFERSON, OREG.

LOCATION.--Lat 44°42'55", long 123°00'40", in SE¼ sec.11, T.10 S., R.3 W., Marion County, on right bank 350 ft (107 m) upstream from Southern Pacific railroad bridge at Jefferson, 2.1 mi (3.4 km) downstream from confluence of North and South Santiam Rivers, and at mile 9.62 (15.5 km).

DRAINAGE AREA.--1,790 mi² (4,640 km²), approximately.

PERIOD OF RECORD.--October 1905 to June 1906 (gage heights and discharge measurements only), October 1907 to September 1916, October 1939 to current year. Gage-height records collected at same site since 1907 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 199.63 ft (60.847 m) above mean sea level. Prior to Sept. 22, 1940, nonrecording gages at sites within 350 ft (107 m) downstream at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--44 years (1907-16, 1939-74), 7,906 ft³/s (223.9 m³/s), 5,728,000 acre-ft/yr (7.06 km³/yr).

EXTREMES.--Current year: Maximum discharge, 84,900 ft³/s (2,400 m³/s) Jan. 16, gage height, 19.28 ft (5.877 m) from floodmark; minimum, 1,320 ft³/s (37.4 m³/s) Aug. 9.

Period of record: Maximum discharge, 197,000 ft³/s (5,580 m³/s) Dec. 22, 1964, gage height, 24.22 ft (7.382 m); minimum observed, 260 ft³/s (7.36 m³/s) Aug. 15-22, Aug. 24 to Sept. 2, 1940.

Flood stage of 25.0 ft (7.62 m) was reached in December 1861, and 23.4 ft (7.13 m) in February 1890 (information from Corps of Engineers). On Nov. 21, 1921, the stage reached 19.5 ft (5.94 m) at gage on railroad bridge 350 ft (107 m) downstream, corresponding gage height at present site and datum, 24.4 ft (7.44 m), from curve of relation, discharge, 202,000 ft³/s (5,720 m³/s).

REMARKS.--Records good. Flow regulated since 1953 by Detroit Lake (see station 14180500), since 1966 by Green Peter Lake (see station 14186100) and by Foster Lake (see station 14186600). Salem Canal diverts from North Santiam River at Stayton for irrigation and power; most of this water reaches Willamette River by way of Mill Creek at Salem. Stayton Canal diverts from North Santiam River at Stayton for irrigation of lands near West Stayton; some return flow reaches North Santiam River above station. Albany power canal diverts from South Santiam River at Lebanon; return flow reaches Willamette River at Albany. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 904: Drainage area. WSP 1094: 1908, 1910, 1912, 1943. WSP 1248: 1911, 1915-16(M). WSP 1935: 1909.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,910	18,000	29,300	29,900	26,200	15,500	22,100	6,550	9,790	3,270	1,540	1,920
2	3,180	10,300	25,400	28,500	21,800	14,200	22,200	7,280	8,690	3,610	1,540	2,080
3	3,840	8,480	23,200	27,000	18,900	12,400	20,700	7,230	8,790	3,410	1,560	2,210
4	3,960	8,320	22,400	24,200	20,000	10,400	18,160	6,460	9,540	2,910	1,540	2,650
5	4,030	9,030	20,400	16,400	16,300	12,700	14,400	6,790	20,000	3,120	1,540	2,610
6	4,080	9,820	20,200	14,600	13,400	22,200	16,900	7,930	18,200	3,180	1,510	2,660
7	4,130	9,570	33,600	14,000	12,600	15,400	15,700	7,930	15,800	3,080	1,400	2,200
8	4,110	9,600	24,700	13,200	12,600	12,700	14,700	8,270	11,900	3,070	1,380	1,930
9	4,060	16,500	20,600	13,100	9,300	9,820	14,500	10,200	8,530	3,150	1,360	2,360
10	4,060	27,200	18,000	12,300	6,880	7,780	13,500	9,460	7,730	2,950	1,390	2,800
11	4,100	27,200	17,900	11,900	7,780	8,480	12,600	8,220	8,350	2,980	1,390	2,430
12	4,210	30,800	17,200	9,820	7,610	12,200	15,600	9,600	8,820	2,920	1,400	2,350
13	4,460	32,300	26,300	8,710	6,620	11,700	14,000	8,900	9,110	2,430	1,400	2,940
14	4,510	26,800	28,800	14,500	6,750	13,300	11,500	8,500	10,100	2,370	1,550	3,030
15	4,490	36,300	29,300	34,200	6,860	23,500	9,990	8,560	10,200	2,270	1,790	2,400
16	4,690	45,300	34,400	63,800	8,270	21,900	8,710	9,030	8,480	2,080	2,280	2,570
17	5,090	3,800	42,300	43,100	9,380	23,100	7,280	8,920	7,680	2,030	1,760	3,270
18	5,340	3,800	31,000	31,900	11,600	18,700	7,950	8,530	7,590	2,250	1,450	3,390
19	5,290	4,700	32,700	24,900	27,300	15,500	7,800	8,050	8,250	2,330	1,940	3,420
20	5,160	4,400	34,400	27,900	21,000	13,900	7,440	8,220	7,510	2,510	2,320	3,330
21	5,040	4,700	38,600	29,900	17,200	12,500	7,210	8,030	6,140	2,450	2,000	3,350
22	5,290	5,000	29,500	29,100	14,000	11,700	7,630	7,440	4,990	2,210	1,880	3,100
23	5,160	4,700	31,600	30,900	10,500	10,300	7,850	7,320	4,760	2,070	2,350	3,160
24	5,700	4,500	28,600	30,400	8,400	9,300	9,160	7,610	4,670	1,960	1,830	3,260
25	6,400	4,200	31,300	30,800	9,870	9,160	11,400	8,120	4,460	1,950	1,500	3,350
26	6,460	2,600	25,500	27,200	13,700	9,410	11,500	7,980	4,660	1,820	1,830	3,700
27	6,290	23,400	26,400	25,000	14,700	10,100	5,870	8,300	3,910	1,730	2,200	3,910
28	6,200	31,500	35,300	25,600	16,100	14,700	5,360	8,000	3,680	1,750	1,880	3,970
29	7,250	38,600	29,900	23,100	------	17,000	5,220	11,900	3,360	1,720	1,780	4,140
30	6,440	32,300	29,700	20,200	------	24,500	5,490	11,600	2,990	1,660	2,340	4,300
31	5,800	------	29,800	18,000	------	21,500	------	10,100	------	1,600	2,320	------
TOTAL	150,730	493,720	868,300	760,030	375,620	445,550	357,860	261,030	248,680	76,840	53,950	88,790
MEAN	4,862	16,460	28,010	24,520	13,420	14,370	11,930	8,420	8,289	2,479	1,740	2,960
MAX	7,250	45,300	42,300	63,800	27,300	24,500	22,200	11,900	20,000	3,610	2,350	4,300
MIN	1,910	2,600	17,200	8,710	6,620	7,780	5,220	6,460	2,990	1,600	1,360	1,920
AC-FT	299,000	979,300	1,722M	1,508M	745,000	883,700	709,800	517,800	493,300	152,400	107,000	176,100

CAL YR 1973 TOTAL 2,597,840 MEAN 7,117 MAX 45,300 MIN 1,190 AC-FT 5,153,000
WTR YR 1974 TOTAL 4,181,100 MEAN 11,460 MAX 63,800 MIN 1,360 AC-FT 8,293,000

NOTE.--No gage-height record Jan. 15-17.

14189500 LUCKIAMUTE RIVER NEAR HOSKINS, OREG.

LOCATION.--Lat 44°43'10", long 123°30'10", in NE¼ sec.11, T.10 S., R.7 W., Benton County, on right bank 0.2 mi (0.3 km) downstream from Benton County line, 3.5 mi (5.6 km) northwest of Hoskins, and at mile 43.2 (69.5 km).

DRAINAGE AREA.--34.3 mi² (88.8 km²).

PERIOD OF RECORD.--May 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 378.7 ft (115.43 m) above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--40 years, 211 ft³/s (5.98 m³/s), 83.54 in/yr (2,122 mm/yr), 152,900 acre-ft/yr (189 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) Nov. 15, gage height, 9.23 ft (2.813 m); minimum, 7.4 ft³/s (0.21 m³/s) Sept. 25.

Period of record: Maximum discharge, 5,560 ft³/s (157 m³/s) Dec. 14, 1946, Feb. 17, 1949; maximum gage height, 13.22 ft (4.029 m) Dec. 14, 1946; minimum discharge, 4.0 ft³/s (0.11 m³/s) Sept. 5-8, 1962.

Flood of Dec. 6, 1933, reached a stage of about 13.8 ft (4.21 m), from information by local residents.

REMARKS.--Records good. Logponds upstream cause diurnal fluctuation at times. Minor diversion above station by pumping for irrigation.

REVISIONS (WATER YEARS).--WSP 834: 1936(M). WSP 1638: 1943(P), 1946(P). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	407	574	582	1,070	1,030	666	89	57	40	25	13
2	20	217	480	480	830	978	782	89	55	40	24	13
3	19	157	473	400	646	730	746	81	52	38	24	12
4	19	231	431	345	678	698	634	76	132	36	23	12
5	18	225	396	300	578	1,230	536	71	189	38	23	12
6	40	205	375	261	487	1,100	494	68	147	37	21	11
7	39	197	678	240	410	734	505	65	125	35	21	11
8	29	279	650	219	351	540	456	63	109	45	21	11
9	26	1,290	498	203	306	431	470	63	98	74	20	14
10	24	842	400	197	270	379	428	70	91	73	19	13
11	23	814	363	187	243	357	487	98	82	51	19	11
12	23	910	442	273	237	424	456	81	76	45	19	10
13	22	1,090	882	826	225	487	393	71	71	43	19	9.5
14	21	1,110	866	1,190	306	686	339	113	68	40	19	9.0
15	21	2,530	1,010	2,200	339	778	297	123	65	39	18	9.0
16	21	2,170	1,180	2,620	626	654	261	154	63	40	18	9.0
17	20	1,090	1,280	1,620	730	526	234	147	58	65	17	9.0
18	19	698	994	1,180	970	431	205	136	56	63	17	8.6
19	19	508	738	1,030	1,340	363	189	121	53	51	17	8.6
20	21	686	738	790	914	318	184	111	51	45	18	8.6
21	33	878	1,090	610	706	282	161	100	49	41	16	8.6
22	28	838	918	519	562	252	147	94	49	39	16	8.2
23	37	754	922	494	470	225	140	89	46	37	16	8.2
24	61	718	806	456	403	203	132	96	44	34	16	7.8
25	63	822	942	505	438	192	121	89	53	33	15	7.4
26	49	790	734	550	582	174	113	81	51	33	14	7.8
27	41	942	842	634	650	192	107	76	56	30	14	8.2
28	60	1,210	1,440	670	1,080	634	100	71	47	29	13	8.2
29	55	990	1,090	618	------	666	94	67	43	29	14	8.2
30	47	726	938	682	------	646	91	64	40	28	14	8.2
31	494	------	754	998	------	594	------	61	------	26	14	------
TOTAL	1,433	24,324	23,944	21,879	16,447	16,934	9,968	2,778	2,176	1,297	564	295.1
MEAN	46.2	811	772	706	587	546	332	89.6	72.5	41.8	18.2	9.84
MAX	494	2,530	1,440	2,620	1,340	1,230	782	154	189	74	25	14
MIN	18	157	363	187	225	174	91	61	40	26	13	7.4
CFSM	1.35	23.6	22.5	20.6	17.1	15.9	9.68	2.61	2.11	1.22	.53	.29
IN.	1.55	26.38	25.97	23.73	17.84	18.37	10.81	3.01	2.36	1.41	.61	.32
AC-FT	2,840	48,250	47,490	43,400	32,620	33,590	19,770	5,510	4,320	2,570	1,120	585

CAL YR 1973 TOTAL 78,081.0 MEAN 214 MAX 2,530 MIN 10 CFSM 6.24 IN 84.68 AC-FT 154,900
WTR YR 1974 TOTAL 122,039.1 MEAN 334 MAX 2,620 MIN 7.4 CFSM 9.74 IN 132.36 AC-FT 242,100

PEAK DISCHARGE (BASE, 2,000 CFS).--Nov. 15 (2030) 3,560 cfs (9.23 ft); Jan. 16 (1130) 3,140 cfs (8.56 ft).

14190500 LUCKIAMUTE RIVER NEAR SUVER, OREG.

LOCATION.--Lat 44°47'00", long 123°14'00", in SW¼SW¼ sec.18, T.9 S., R.4 W., Polk County, on right bank 10 ft (3 m) upstream from highway bridge at Helmick State Park, 3.0 mi (4.8 km) northwest of Suver, 4.7 mi (7.6 km) downstream from Little Luckiamute River, and at mile 13.5 (21.7 km).

DRAINAGE AREA.--240 mi² (622 km²).

PERIOD OF RECORD.--August 1905 to October 1911, July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 171.92 ft (52.401 m) above mean sea level. Aug. 18, 1905, to Oct. 31, 1911, nonrecording gage at present site at different datum, Aug. 20 to Oct. 15, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 940 ft³/s (26.6 m³/s), 53.19 in/yr (1,351 mm/yr), 681,000 acre-ft/yr (840 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 16, gage height, 31.47 ft (9.592 m); minimum, 18 ft³/s (0.51 m³/s) Sept. 26, 27.
Period of record: Maximum discharge, 32,900 ft³/s (932 m³/s) Dec. 22, 1964, gage height, 34.52 ft (10.522 m); minimum, 0.65 ft³/s (0.018 m³/s) Aug. 13, 1966.

REMARKS.--Records good. Some diurnal fluctuation during periods of low flow caused by millpond above station. A few small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1044: Drainage area. WSP 1094: 1945-46. WSP 1248: 1905-11.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	1.260	3.210	3.050	4.290	5.170	3.180	460	253	110	49	34
2	63	718	2.370	2.240	4.200	5.260	3.440	460	239	105	44	37
3	60	500	2.030	1.820	3.210	4.510	3.580	439	230	100	41	34
4	57	450	1.900	1.540	2.820	3.360	3.130	415	232	97	47	32
5	55	640	1.660	1.340	2.680	3.230	2.740	396	471	96	48	30
6	59	570	1.620	1.180	2.170	4.470	2.300	379	443	99	40	32
7	149	520	2.600	1.060	1.840	3.890	2.170	363	381	96	40	32
8	130	600	3.380	969	1.590	2.780	1.960	345	341	99	39	29
9	98	800	2.540	886	1.400	2.090	1.900	331	310	182	39	30
10	86	2.000	1.930	815	1.260	1.770	1.800	343	285	227	40	33
11	78	3.300	1.660	768	1.150	1.720	1.700	361	263	184	42	37
12	74	2.100	2.030	871	1.080	1.810	1.790	408	245	146	41	31
13	72	2.300	4.180	3.180	1.030	2.510	1.560	356	227	125	37	29
14	68	2.600	5.220	4.740	1.170	3.140	1.370	359	211	114	40	28
15	66	3.000	5.310	9.910	1.280	4.170	1.230	496	202	111	39	26
16	63	7.000	5.790	16.800	2.240	3.660	1.120	510	199	95	39	25
17	62	5.500	7.310	12.900	3.010	2.920	1.020	535	186	121	37	26
18	60	3.300	6.710	7.500	2.940	2.230	935	501	172	221	38	26
19	59	2.000	4.840	6.760	5.230	1.840	859	458	160	186	39	26
20	58	1.300	4.220	5.100	5.560	1.570	827	426	155	153	37	25
21	68	1.700	5.880	3.690	4.070	1.370	776	397	148	132	39	24
22	102	2.200	6.000	2.750	3.180	1.220	718	372	140	115	37	23
23	96	2.100	4.980	2.280	2.610	1.110	688	357	143	100	35	24
24	130	1.900	4.290	2.060	2.090	1.010	664	350	136	93	33	23
25	218	1.800	4.400	1.950	1.900	960	619	367	123	85	35	21
26	204	4.000	3.860	2.100	2.160	947	582	336	153	77	36	20
27	162	4.200	3.580	2.060	2.870	965	560	316	154	72	30	19
28	141	4.600	5.300	2.400	4.000	2.260	529	298	156	68	27	22
29	177	5.120	5.860	2.220	------	3.550	504	286	133	68	26	23
30	163	4.340	5.370	2.190	------	3.720	481	275	121	55	27	26
31	159	------	4.130	2.770	------	3.550	------	264	------	53	30	------
TOTAL	3.105	72.418	124.160	109.899	73.030	82.762	44.732	11.959	6.612	3.585	1.171	827
MEAN	100	2.414	4.005	3.545	2.608	2.670	1.491	386	220	116	37.8	27.6
MAX	218	7.000	7.310	16.800	5.560	5.260	3.580	535	471	227	49	37
MIN	55	450	1.620	768	1.030	947	481	264	121	53	26	19
CFSM	.42	10.1	16.7	14.8	10.9	11.1	6.21	1.61	.92	.48	.16	.12
IN.	.48	11.22	19.24	17.03	11.32	12.83	6.93	1.85	1.02	.56	.18	.13
AC-FT	6.160	143.600	246.300	218.000	144.900	164.200	88.730	23.720	13.110	7.110	2.320	1.640

CAL YR 1973 TOTAL 327.657.2 MEAN 898 MAX 7.310 MIN 5.9 CFSM 3.74 IN 50.79 AC-FT 649.900
WTR YR 1974 TOTAL 534.260.0 MEAN 1.464 MAX 16.800 MIN 19 CFSM 6.10 IN 82.81 AC-FT 1.060.000

PEAK DISCHARGE (BASE, 6,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	Time and gage-height unknown			12-21	2130	26.57	6,700
12-17	1400	27.14	7,410	1-16	2200	31.47	18,700

14190700 RICKREALL CREEK NEAR DALLAS, OREG.

LOCATION.--Lat 44°54'50", long 123°23'20", in SE¼SW¼ sec.35, T.7 S., R.6 W., Polk County, on left bank 1.8 mi (2.9 km) downstream from Canyon Creek, 3.5 mi (5.6 km) west of Dallas, 5.1 mi (8.2 km) downstream from Dallas Dam, and at mile 19.1 (30.7 km).

DRAINAGE AREA.--27.4 mi² (71.0 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 520 ft (160 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 152 ft³/s (4.30 m³/s), 75.33 in/yr (1,913 mm/yr), 110,100 acre-ft/yr (136 hm³/yr), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 4,190 ft³/s (119 m³/s) Jan. 15, gage height, 6.93 ft (2.112 m); 3.4 ft³/s (0.096 m³/s) Sept. 26.

Period of record: Maximum discharge, 7,160 ft³/s (203 m³/s) Dec. 22, 1964, gage height, 8.78 ft (2.676 m); no flow at times.

REMARKS.--Records excellent. Low flow regulated since June 1960 by Dallas Reservoir, usable capacity, 2,010 acre-ft (2.48 hm³). Diversion for city of Dallas municipal supply from four tributaries and Rickreall Creek above station.

COOPERATION.--Records of diversion, monthend elevations of reservoir, and reservoir capacity curve furnished by city of Dallas.

REVISIONS.--WSP 1718: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	219	407	330	800	856	551	62	27	10	5.2	8.6
2	11	117	338	264	556	807	551	62	25	10	6.7	8.6
3	11	81	342	216	413	545	518	56	26	9.3	7.1	8.2
4	11	83	307	183	432	422	442	53	43	9.3	7.1	7.1
5	11	71	281	157	372	585	390	51	55	12	7.8	7.1
6	18	69	289	138	310	562	372	49	45	10	8.2	7.1
7	16	81	696	121	258	408	381	48	40	9.8	7.4	7.4
8	14	235	507	111	218	314	334	45	35	18	8.2	8.6
9	13	1,730	362	101	187	258	310	44	32	29	7.1	9.3
10	13	684	278	92	162	265	269	48	29	30	6.7	8.2
11	12	751	251	84	144	294	276	55	25	20	8.6	7.4
12	12	739	407	180	141	322	258	52	23	17	7.8	7.8
13	12	856	770	739	134	355	221	47	22	14	7.8	6.7
14	12	809	862	1,240	214	523	187	68	20	13	7.8	7.4
15	12	2,440	1,060	3,560	279	700	167	77	20	11	7.8	8.2
16	13	1,820	1,380	3,380	596	620	149	85	20	12	7.4	8.6
17	12	770	1,190	1,610	568	476	134	80	18	34	6.7	7.8
18	13	474	745	1,240	650	359	125	73	14	33	9.0	7.4
19	16	342	532	1,060	900	291	116	67	15	27	9.0	7.4
20	16	469	983	656	585	241	111	60	14	22	8.6	7.4
21	16	644	1,150	456	442	205	105	55	12	18	8.6	6.4
22	16	622	789	359	351	181	99	51	16	16	7.8	7.1
23	17	493	696	302	294	162	93	48	13	12	7.4	7.4
24	21	469	611	261	258	146	87	51	12	9.0	7.4	5.5
25	20	557	578	265	298	154	80	47	16	11	8.2	3.6
26	19	537	474	276	381	159	77	43	18	9.3	5.8	7.1
27	18	575	714	294	427	202	71	39	19	8.2	4.9	7.4
28	18	1,090	876	306	914	739	68	35	15	7.4	4.9	7.8
29	17	776	757	279	------	706	65	34	13	6.1	7.1	7.8
30	17	527	600	283	------	681	64	30	11	5.2	8.6	7.4
31	109	------	442	719	------	562	------	28	------	6.7	8.2	------
TOTAL	547	19,130	19,674	19,262	11,284	13,100	6,671	1,643	693	459.3	230.9	223.8
MEAN	17.6	638	635	621	403	423	222	53.0	23.1	14.8	7.45	7.46
MAX	109	2,440	1,380	3,560	914	856	551	85	55	34	9.0	9.3
MIN	11	69	251	84	134	146	64	28	11	5.2	4.9	3.6
AC-FT	1,080	37,940	39,020	38,210	22,380	25,980	13,230	3,260	1,370	911	458	444
MEAN†	23.1	645	637	624	406	425	225	55.9	27.2	18.4	8.03	2.67
CFSM†	.84	23.5	23.2	22.8	14.8	15.5	8.21	2.04	.99	.67	.29	.10
IN.†	.97	26.28	26.81	26.28	15.43	17.91	9.17	2.35	1.11	.77	.34	.11
ACRE-FT†	1,420	38,390	39,180	38,390	22,540	26,160	13,390	3,440	1,620	1,130	493	158

CAL YR 1973 TOTAL 58,013.9 MEAN 159 MAX 2,440 MIN 2.7 AC-FT 115,100 MEAN† 162 CFSM† 5.91 IN.† 80.43 AC-FT† 117,500
WTR YR 1974 TOTAL 92,918.0 MEAN 255 MAX 3,560 MIN 3.6 AC-FT 184,300 MEAN† 257 CFSM† 9.38 IN.† 127.52 AC-FT† 186,300

† Adjusted for diversion and change in contents of Dallas Reservoir.

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	0830	5.67	2,360	12-20	2100	4.75	1,380
11-15	1900	6.47	3,400	1-15	1600	6.93	4,190
12-16	1530	4.97	1,580				

14191000 WILLAMETTE RIVER AT SALEM, OREG.

LOCATION.--Lat 44°56'40", long 123°02'30", in SW¼ sec.22, T.7 S., R.3 W., Marion County, on right bank 300 ft (91 m) upstream from Center Street Bridge in Salem and at mile 84.16 (135.41 km).

DRAINAGE AREA.--7,280 mi² (18,900 km²), approximately.

PERIOD OF RECORD.--October 1909 to December 1916, January 1923 to current year. Monthly discharge only January 1923 to September 1927, published in WSP 1318. Gage-height records collected at about the same site since 1892 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 106.14 ft (32.351 m) above mean sea level. Oct. 1, 1909, to Dec. 31, 1916, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 8.00 ft (2.438 m) higher. Jan. 1, 1923, to Nov. 26, 1934, nonrecording gage at Center Street Bridge at datum 8.00 ft (2.438 m) higher. Nov. 27, 1934, to Sept. 30, 1962, water-stage recorder at present site at datum 8.00 ft (2.438 m) higher.

AVERAGE DISCHARGE.--58 years, 23,790 ft³/s (674 m³/s), 44.38 in/yr (1,127 mm/yr), 17,240,000 acre-ft/yr (21.3 km³/yr).

EXTREMES.--Current year: Maximum discharge, 206,000 ft³/s (5,830 m³/s) Jan. 17, gage height, 32.32 ft (9.851 m); minimum, 6,500 ft³/s (184 m³/s) Aug. 9-11, gage height, 5.12 ft (1.561 m).

Period of record: Maximum discharge, 348,000 ft³/s (9,860 m³/s) Jan. 8, 1923, gage height, 38.3 ft (11.67 m), present datum; minimum, 2,470 ft³/s (70.0 m³/s) Aug. 27, 1940, gage height, 3.55 ft (1.082 m), present datum.

Maximum discharge, 500,000 ft³/s (14,200 m³/s) Dec. 4, 1861, gage height, about 47 ft (14.3 m) present datum, from rating curve extended above 250,000 ft³/s (7,080 m³/s) in 1916. Floods of Jan. 16, 1881, and Feb. 5, 1890, reached stages of 44.3 ft (13.50 m), discharge, 428,000 ft³/s (12,100 m³/s), and 45.1 ft (13.75 m), discharge, 448,000 ft³/s (12,700 m³/s), respectively, from floodmarks and information by Corps of Engineers.

REMARKS.--Records excellent. Flow regulated by 12 reservoirs above station (see elsewhere in this report). Many small diversions for irrigation above station; part of flow of Salem Canal, which diverts water from North Santiam River, returns to Willamette River below station, through Mill Creek at Salem (see station 14192000). Record of water temperatures and chemical analysis at site 0.4 mi (0.6 km) upstream for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1318: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,540	26,700	91,400	89,300	72,800	64,600	80,700	18,300	21,900	11,500	6,920	7,610
2	8,170	25,900	81,400	79,000	78,000	65,400	78,200	19,200	20,900	11,800	6,870	7,700
3	9,720	22,900	75,500	72,000	72,200	61,500	77,100	20,400	21,200	11,800	7,060	7,840
4	10,200	22,200	71,100	61,900	66,100	49,700	73,400	19,400	21,800	11,400	7,110	8,280
5	10,500	22,800	66,800	47,600	62,600	41,600	66,200	18,300	29,600	11,400	7,030	8,420
6	10,800	23,900	61,700	41,000	56,900	55,700	60,400	19,200	38,700	11,400	6,810	8,480
7	11,000	29,100	68,100	38,000	47,700	61,600	52,700	20,000	37,500	11,300	6,790	8,280
8	11,400	31,800	79,800	35,500	41,100	55,500	45,500	20,300	33,700	11,200	6,580	7,530
9	11,600	42,000	71,000	34,200	35,000	39,700	42,500	23,300	27,800	11,200	6,550	7,670
10	11,600	61,300	64,400	31,800	27,400	32,900	41,400	24,400	23,400	11,200	6,550	8,390
11	11,800	68,000	62,800	30,700	24,700	33,800	37,200	22,700	22,100	10,600	6,550	8,540
12	12,300	73,900	62,000	29,400	25,400	38,900	40,300	21,500	23,200	10,100	6,630	7,900
13	13,300	81,000	76,300	34,900	23,000	46,700	42,100	21,500	23,400	9,790	6,600	8,390
14	13,800	84,600	88,500	50,400	22,100	49,300	38,600	20,800	24,700	9,230	6,650	9,440
15	13,800	95,600	93,000	90,000	23,300	66,800	33,300	20,400	26,000	8,850	7,300	9,260
16	13,900	121,000	97,100	161,000	26,900	78,600	30,200	21,200	24,700	8,510	8,630	9,580
17	14,400	124,000	106,000	199,000	35,600	78,100	26,700	22,000	22,900	8,310	8,690	10,800
18	14,900	102,000	110,000	167,000	39,400	71,300	25,200	21,700	21,200	8,420	8,010	12,300
19	14,900	89,300	102,000	132,000	60,200	62,000	24,200	21,400	21,900	8,690	8,130	12,600
20	14,900	83,100	97,900	111,000	74,000	51,200	23,400	21,100	21,500	8,480	9,140	12,700
21	15,000	86,600	112,000	102,000	71,800	43,500	22,700	21,200	20,400	8,570	9,140	12,700
22	15,400	93,100	112,000	97,000	64,600	39,700	22,200	20,200	17,700	8,160	8,570	12,500
23	15,900	92,500	101,000	92,400	53,000	36,700	21,900	19,400	16,300	7,950	8,940	12,400
24	15,900	88,900	90,900	91,600	41,900	32,900	22,600	19,700	15,900	7,580	9,000	12,500
25	16,700	85,300	86,400	87,000	34,800	30,900	26,700	20,300	15,200	7,330	7,870	12,600
26	17,100	82,600	82,300	82,300	40,400	30,000	30,300	20,300	14,900	7,360	7,220	12,700
27	17,300	78,600	78,200	75,800	50,900	30,200	24,500	21,000	13,900	7,190	7,500	12,800
28	17,000	81,400	90,400	73,600	59,900	39,100	18,200	21,700	13,000	7,440	7,280	12,900
29	17,700	94,000	95,300	68,800	------	55,000	17,100	23,600	12,500	7,470	6,680	13,100
30	17,900	97,800	94,600	63,500	------	69,400	16,500	24,600	11,700	7,330	7,060	13,200
31	16,800	------	93,700	61,300	------	78,900	------	22,900	------	7,080	7,870	------
TOTAL	423,230	2,111.9M	2,663.6M	2,431.0M	1,331.9M	1,591.2M	1,162.2M	652,000	659,800	288,640	231,730	309,110
MEAN	13,650	70,400	85,920	78,420	47,570	51,330	38,740	21,030	21,990	9,311	7,475	10,300
MAX	17,900	124,000	112,000	199,000	78,000	78,900	80,700	24,600	38,700	11,800	9,140	13,200
MIN	7,540	22,200	61,700	29,400	22,100	30,000	16,500	18,300	11,700	7,080	6,550	7,530
CFSM	1.88	9.67	11.8	10.8	6.53	7.05	5.32	2.89	3.02	1.28	1.03	1.41
IN.	2.16	10.79	13.61	12.42	6.81	8.13	5.94	3.33	3.37	1.47	1.18	1.58
AC-FT	839,500	4,189M	5,283M	4,822M	2,642M	3,156M	2,305M	1,293M	1,309M	572,500	459,600	613,100

CAL YR 1973 TOTAL 8,688,810 MEAN 23,800 MAX 124,000 MIN 5,620 CFSM 3.27 IN 44.40 AC-FT 17,230,000

WTR YR 1974 TOTAL 13,856,310 MEAN 37,960 MAX 199,000 MIN 6,550 CFSM 5.21 IN 70.80 AC-FT 27,480,000

14192000 MILL CREEK AT SALEM, OREG.

LOCATION.--Lat 44°56'05", long 123°01'00", in NE¼ sec.26, T.7 S., R.3 W., Marion County, on left bank at State Street Bridge in Salem, 220 ft (67 m) downstream from 19th Street power diversion and at mile 2.11 (3.39 km).

DRAINAGE AREA.--110 mi^2 (285 km^2).

PERIOD OF RECORD.--November, December 1934, August to October 1938, May 1939 to current year. Prior to October 1940 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 166.12 ft (50.633 m) above mean sea level. See WSP 1738 for history of changes prior to Oct. 10, 1940.

AVERAGE DISCHARGE.--35 years (1939-74), 139 ft^3/s (3.936 m^3/s), 100,700 acre-ft/yr (124 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,230 ft^3/s (63.2 m^3/s) Jan. 16, gage height, 9.85 ft (3.002 m), from floodmark; minimum, 9.8 ft^3/s (0.28 m^3/s) Aug. 6.
Period of record: Maximum discharge, 2,230 ft^3/s (63.2 m^3/s) Jan. 16, 1974, gage height, 9.85 ft (3.002 m), from floodmark; no flow Oct. 2, 1938.

REMARKS.--Records good. Diurnal fluctuation caused by powerplant above station. Salem power canal diverts water into Mill Creek near Stayton. Several diversions from Mill Creek, including Shelton flood bypass 1.2 mi (1.9 km) upstream and 19th Street power diversion 220 ft (67 m) upstream.

REVISIONS (WATER YEARS).--WSP 1218: Drainage area. WSP 1718: 1954(M), 1956(M), 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	165	307	285	384	354	335	79	63	55	22	54
2	44	155	261	252	282	354	316	77	62	51	20	51
3	46	145	248	223	233	293	291	74	58	77	28	53
4	47	135	237	197	298	245	251	69	61	70	35	44
5	51	125	219	173	263	323	227	68	65	61	34	64
6	75	125	255	156	222	347	220	66	64	63	31	60
7	82	140	450	205	197	256	202	69	61	71	37	48
8	89	160	331	195	173	221	182	68	71	74	33	48
9	82	205	274	190	160	197	228	69	67	84	38	61
10	68	300	242	190	147	184	224	68	60	69	44	65
11	61	350	230	128	137	207	223	67	65	67	57	61
12	60	360	314	190	130	304	222	70	71	61	63	54
13	59	430	521	556	132	332	195	73	69	57	60	58
14	60	490	409	673	188	400	175	88	69	57	62	53
15	60	620	382	1,460	160	432	160	68	71	51	59	48
16	67	750	648	1,870	256	332	147	70	73	48	58	52
17	68	630	727	913	226	323	135	71	67	76	47	49
18	72	450	521	590	300	261	126	68	59	81	58	54
19	68	300	393	463	432	227	120	71	62	82	76	53
20	72	320	551	335	302	204	118	70	60	74	73	48
21	78	350	998	278	295	188	110	66	57	70	65	48
22	86	340	551	248	314	171	105	64	51	62	58	53
23	81	320	481	229	265	158	104	61	61	57	59	55
24	90	310	423	223	222	148	99	61	57	46	58	52
25	110	300	439	228	228	143	101	61	52	45	52	53
26	105	320	355	219	374	135	96	59	59	43	53	60
27	100	323	393	227	369	150	91	57	62	23	52	64
28	115	380	400	233	463	367	84	55	62	47	53	67
29	140	457	425	212	------	323	82	55	48	48	47	69
30	135	360	378	209	------	440	76	57	51	28	59	71
31	150	------	331	318	------	332	------	54	------	27	61	------
TOTAL	2,467	9,815	12,694	11,868	7,152	8,351	5,045	2,073	1,858	1,825	1,552	1,690
MEAN	79.6	327	409	383	255	269	168	66.9	61.9	58.9	50.1	56.3
MAX	150	750	998	1,870	463	440	335	88	73	84	76	71
MIN	44	125	219	128	130	135	76	54	48	23	20	48
AC-FT	4,890	19,470	25,180	23,540	14,190	16,560	10,010	4,110	3,690	3,620	3,080	3,350

CAL YR 1973 TOTAL 50,304 MEAN 138 MAX 998 MIN 14 AC-FT 99,780
WTR YR 1974 TOTAL 66,390 MEAN 182 MAX 1,870 MIN 20 AC-FT 131,700

NOTE.--No gage-height record Oct. 19 to Nov. 26, Jan. 15, 16.

14192500 SOUTH YAMHILL RIVER NEAR WILLAMINA, OREG.

LOCATION.--Lat 45°02'50", long 123°30'10", in sec.14, T.6 S., R.7 W., Polk County, on left bank 2.3 mi (3.7 km) southwest of Willamina, 2.8 mi (4.5 km) upstream from Willamina Creek, and at mile 45.5 (73.2 km).

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--May 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 235.55 ft (71.796 m) above mean sea level.

AVERAGE DISCHARGE.--40 years, 636 ft³/s (18.0 m³/s), 64.94 in/yr (1,649 mm/yr), 460,800 acre-ft/yr (568 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13,200 ft³/s (374 m³/s) Jan. 15, gage height, 13.29 ft (4.051 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 24-30.
Period of record: Maximum discharge, 19,600 ft³/s (555 m³/s) Dec. 22, 1964, gage height, 17.07 ft (5.203 m); minimum, 2.6 ft³/s (0.074 m³/s) Oct. 11, 1952.

REMARKS.--Records excellent. Slight regulation occasionally at low flows by millpond upstream. No diversion above station.

REVISIONS (WATER YEARS).--WSP 814: Drainage area. WSP 1318: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	1,530	1,580	1,510	3,450	3,670	1,850	239	170	75	39	22
2	59	790	1,250	1,170	2,440	3,530	2,190	256	158	77	37	20
3	55	540	1,280	936	1,890	2,500	2,070	230	149	73	36	19
4	52	605	1,070	785	2,320	2,040	1,800	214	214	69	36	19
5	49	530	912	655	1,880	3,140	1,590	205	378	67	35	20
6	163	472	830	565	1,520	3,100	1,500	196	276	64	34	19
7	244	500	1,710	496	1,260	2,180	1,490	191	252	62	32	18
8	140	775	1,390	448	1,050	1,580	1,230	179	226	77	34	18
9	115	5,750	1,100	400	896	1,250	1,220	176	208	120	32	18
10	100	2,840	912	388	766	1,250	1,110	220	191	155	30	25
11	90	3,660	996	336	671	1,330	1,350	242	176	106	28	20
12	86	3,430	2,270	645	661	1,500	1,290	246	164	91	29	18
13	83	3,960	3,460	2,230	641	1,670	1,110	223	152	80	29	17
14	83	3,450	3,230	3,660	958	2,020	952	334	144	73	31	16
15	76	7,330	3,360	11,000	992	2,360	816	411	138	71	31	16
16	70	6,790	4,380	10,900	2,190	2,130	713	536	133	71	28	17
17	67	3,190	3,910	5,770	2,200	1,710	626	492	123	176	26	17
18	64	1,960	2,710	4,540	2,270	1,340	555	478	115	188	26	17
19	61	1,370	2,070	3,540	3,460	1,110	509	411	111	133	28	17
20	61	2,140	3,240	2,600	2,590	935	483	366	106	111	32	16
21	102	2,910	3,080	1,860	2,050	793	438	331	101	93	31	15
22	88	2,680	2,560	1,520	1,710	687	399	301	97	82	27	15
23	106	2,290	2,530	1,500	1,400	607	378	283	95	77	25	15
24	217	2,310	2,490	1,320	1,170	545	362	290	91	71	25	14
25	235	2,890	2,540	1,490	1,340	536	334	276	101	66	24	13
26	181	2,730	2,020	1,780	2,040	527	312	242	115	61	21	14
27	153	2,750	2,980	2,010	2,040	631	294	226	111	59	19	14
28	196	4,270	3,400	2,080	3,770	2,530	279	211	99	54	19	14
29	208	3,000	3,260	1,740	------	2,080	266	202	86	50	19	14
30	172	2,050	2,490	1,640	------	1,900	249	191	79	45	19	15
31	1,520	------	2,040	2,790	------	1,650	------	179	------	41	21	------
TOTAL	4,962	79,492	71,050	72,304	49,675	52,631	27,765	8,577	4,559	2,638	883	512
MEAN	160	2,650	2,292	2,332	1,774	1,704	926	277	152	85.1	28.5	17.1
MAX	1,520	7,330	4,380	11,000	3,770	3,670	2,190	536	378	188	39	25
MIN	49	472	830	336	641	527	249	176	79	41	19	13
CFSM	1.20	19.9	17.2	17.5	13.3	12.8	6.96	2.08	1.14	.64	.21	.13
IN.	1.39	22.23	19.87	20.22	13.89	14.78	7.77	2.40	1.28	.74	.25	.14
AC-FT	9,840	157,700	140,900	143,400	98,530	104,800	55,070	17,010	9,040	5,230	1,750	1,020

CAL YR 1973 TOTAL 246,161.8 MEAN 674 MAX 7,330 MIN 8.3 CFSM 5.07 IN 68.85 AC-FT 488,300
WTR YR 1974 TOTAL 375,248.0 MEAN 1,028 MAX 11,000 MIN 13 CFSM 7.73 IN 104.96 AC-FT 744,300

PEAK DISCHARGE (BASE, 5,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	0900	9.35	7,290	1-15	1800	13.29	13,200
11-15	2200	11.28	10,100				

14193000 WILLAMINA CREEK NEAR WILLAMINA, OREG.

LOCATION.--Lat 45°08'35", long 123°29'35", in NE¼NW¼ sec.13, T.5 S., R.7 W., Yamhill County, on right bank 4.5 mi (7.2 km) north of Willamina and at mile 6.2 (10.0 km).

DRAINAGE AREA.--64.7 mi^2 (167.6 km^2).

PERIOD OF RECORD.--June 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 315 ft (96.0 m) above mean sea level (plane-table survey). Prior to Oct. 1, 1939, water-stage recorder at site on left bank at datum 1.00 ft (0.305 m) higher. Oct. 1, 1939, to Aug. 5, 1968, water-stage recorder at site on left bank at present datum.

AVERAGE DISCHARGE.--40 years, 266 ft^3/s (7.53 m^3/s), 55.83 in/yr (1,418 mm/yr), 192,700 acre-ft/yr (238 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,050 ft^3/s (143 m^3/s) Jan. 15, gage height, 9.70 ft (2.957 m), from high-water mark in well; minimum, 12 ft^3/s (0.34 m^3/s) Sept. 25.

Period of record: Maximum discharge, 10,800 ft^3/s (306 m^3/s) Dec. 22, 1964, gage height, 13.54 ft (4.126 m), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-area measurement at gage height 11.65 ft (3.551 m); minimum, 5.4 ft^3/s (0.15 m^3/s) July 15, 1967.

Flood of Mar. 31, 1931, reached a stage of about 12 ft (3.6 m) from information by local resident, discharge, 8,200 ft^3/s (232 m^3/s) from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-area measurement at gage height 11.65 ft (3.551 m).

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	421	779	723	1.420	1.430	838	152	89	51	27	17
2	27	250	642	608	1.080	1.510	917	150	86	52	26	16
3	26	188	624	516	893	1.110	929	139	83	50	25	15
4	24	193	546	451	926	935	672	131	129	48	25	16
5	24	173	498	397	863	1.370	825	125	145	47	25	16
6	104	170	458	380	734	1.410	730	120	120	47	24	16
7	97	193	703	360	638	1.010	664	114	107	46	24	15
8	63	296	620	330	553	813	588	107	97	55	24	16
9	51	1.720	538	310	486	672	561	109	91	68	24	19
10	45	940	472	300	430	596	520	131	86	64	23	18
11	41	1.230	475	290	387	576	584	127	82	56	22	17
12	41	1.240	856	270	365	592	612	114	78	51	23	15
13	41	1.530	1.360	1.000	350	657	542	107	74	48	24	14
14	39	1.330	1.550	2.000	451	711	483	147	74	45	24	14
15	35	3.320	1.740	4.500	472	755	430	167	73	44	23	14
16	34	2.790	2.160	4.200	875	763	384	216	70	46	22	14
17	33	1.400	1.910	3.000	875	730	350	219	67	60	21	14
18	31	890	1.360	2.000	929	631	321	233	64	54	21	14
19	30	668	1.010	1.400	1.470	549	295	204	62	49	22	14
20	31	1.000	1.250	1.020	1.180	486	280	183	61	45	23	14
21	41	1.420	1.200	834	926	430	257	165	59	41	22	13
22	37	1.260	1.030	723	796	390	241	152	58	39	20	14
23	48	1.110	1.040	730	680	356	228	143	57	38	20	13
24	74	1.120	1.080	664	592	330	21[illegible]	155	56	37	20	14
25	91	1.350	1.050	738	612	316	204	143	66	36	19	13
26	71	1.280	908	866	851	304	191	131	64	34	18	14
27	62	1.270	1.370	926	851	327	180	122	67	32	17	14
28	70	1.540	1.600	920	1.320	976	172	112	59	31	17	15
29	71	1.280	1.390	834	------	971	162	107	55	30	17	15
30	64	944	1.050	825	------	866	155	102	50	29	17	15
31	469	------	887	1.220	------	755	------	97	------	28	18	------
TOTAL	1.943	32.506	32.156	33.335	22.005	23.327	13.734	4.424	2.329	1.401	677	448
MEAN	62.7	1.084	1.037	1.075	786	752	458	143	77.6	45.2	21.8	14.9
MAX	469	3.320	2.160	4.500	1.470	1.510	929	233	145	68	27	19
MIN	24	170	458	270	350	304	155	97	50	28	17	13
CFSM	.97	16.8	16.0	16.6	12.1	11.6	7.08	2.21	1.20	.70	.34	.23
IN.	1.12	18.69	18.49	19.17	12.65	13.41	7.90	2.54	1.34	.81	.39	.26
AC-FT	3.850	64.480	63.780	66.120	43.650	46.270	27.240	8.780	4.620	2.780	1.340	889

CAL YR 1973 TOTAL 106.814 MEAN 293 MAX 3.320 MIN 11 CFSM 4.53 IN 61.41 AC-FT 211.900
WTR YR 1974 TOTAL 168.285 MEAN 461 MAX 4.500 MIN 13 CFSM 7.13 IN 96.76 AC-FT 333.800

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	1900	9.38	4,460	1-15	1800	9.70	5,050
12-16	1500	7.06	2,400				

NOTE.--No gage-height record Jan. 6-19.

14194000 SOUTH YAMHILL RIVER NEAR WHITESON, OREG.

LOCATION.--Lat 45°10'08", long 123°12'25", in NW¼ sec.5, T.5 S., R.4 W., Yamhill County, near left bank on downstream side of Whiteson Bridge on State Highway 99W, 1.3 mi (2.1 km) northwest of Whiteson, 1.4 mi (2.3 km) downstream from Salt Creek, and at mile 16.71 (26.89 km).

DRAINAGE AREA.--502 mi² (1,300 km²).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 82.30 ft (25.085 m) above mean sea level. Prior to Sept. 20, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--34 years, 1,819 ft³/s (51.5 m³/s), 49.21 in/yr (1,250 mm/yr), 1,318,000 acre-ft/yr (1.63 km³/yr).

EXTREMES.--Current year: Maximum discharge, 37,000 ft³/s (1,050 m³/s) Jan. 16, gage height, 45.36 ft (13.826 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 27, 28.

Period of record: Maximum discharge, 47,200 ft³/s (1,337 m³/s) Dec. 23, 1964, gage height, 47.20 ft (14.387 m); minimum, 3.2 ft³/s (0.091 m³/s) Aug. 24, 1967.

Flood of December 1937 reached a stage of 46.9 ft (14.30 m), from Oregon State Highway Department bridge plans.

REMARKS.--Records good. Slight regulation during low-water periods by logpond upstream. Many small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	3,540	6,930	5,890	8,060	12,100	5,910	713	429	228	105	42
2	111	2,200	4,960	4,300	9,210	13,800	6,240	713	418	221	98	40
3	103	1,250	3,920	3,300	7,180	12,200	6,520	687	413	202	94	39
4	98	1,100	3,660	2,660	6,010	8,710	5,840	632	388	202	92	39
5	92	1,240	3,130	2,240	6,130	6,630	5,390	604	654	203	86	38
6	101	1,050	2,400	1,860	5,200	8,110	4,600	586	652	203	85	36
7	447	1,080	3,540	1,640	4,200	7,560	4,410	563	565	202	84	32
8	371	1,030	5,030	1,510	3,440	5,600	3,980	539	520	202	81	33
9	262	4,200	4,150	1,340	2,910	4,150	3,740	522	448	213	78	33
10	214	9,080	3,340	1,220	2,510	3,[illegible]0	3,680	533	437	274	76	34
11	188	9,100	2,780	1,160	2,200	3,820	3,600	589	401	264	74	43
12	170	9,520	3,670	1,180	1,990	3,970	4,170	611	376	206	72	42
13	157	10,600	7,420	3,470	1,940	5,110	3,720	573	351	202	72	37
14	155	12,500	11,000	6,300	2,100	5,590	3,270	558	330	202	73	28
15	151	15,300	11,900	15,500	2,520	6,470	2,800	845	319	203	74	28
16	134	30,700	12,000	34,700	4,450	6,370	2,400	1,030	310	203	70	26
17	128	17,600	14,200	21,200	6,450	5,540	2,100	1,080	294	203	65	26
18	124	12,500	13,700	17,200	6,180	4,420	2,000	1,180	265	329	63	24
19	116	8,530	10,900	17,000	7,300	3,530	1,700	1,050	249	275	64	24
20	112	5,890	8,830	14,000	6,820	2,940	1,500	917	238	219	66	25
21	124	7,240	10,800	9,830	7,270	2,490	1,400	797	237	202	63	23
22	186	9,200	11,400	6,260	5,820	2,160	1,200	740	244	203	60	22
23	175	8,980	9,710	4,630	5,040	1,910	1,110	695	247	203	58	24
24	232	8,190	8,030	4,100	4,150	1,720	1,060	680	293	180	57	23
25	457	7,790	7,720	3,820	3,700	1,590	1,010	693	307	170	54	23
26	443	8,250	7,170	4,540	4,510	1,580	929	620	366	155	50	19
27	377	8,170	6,320	4,700	5,930	1,590	865	570	361	145	45	16
28	305	7,940	7,870	5,410	7,970	3,960	793	527	307	135	42	18
29	395	9,610	9,080	5,020	------	7,080	787	485	274	125	42	21
30	354	9,120	9,150	4,440	------	7,170	750	401	245	115	43	24
31	374	------	7,760	4,980	------	6,670	------	453	------	110	43	------
TOTAL	6,783	242,560	232,870	215,950	143,190	167,960	87,674	21,184	10,938	6,199	2,129	882
MEAN	219	8,085	7,512	6,966	5,114	5,418	2,922	683	365	200	68.7	29.4
MAX	457	30,700	14,200	34,700	9,210	13,800	6,520	1,180	654	329	105	43
MIN	92	1,030	2,780	1,160	1,940	1,580	750	401	237	110	42	16
CFSM	.44	16.1	15.0	13.9	10.2	10.8	5.82	1.36	.73	.40	.14	.06
IN.	.50	17.97	17.26	16.00	10.61	12.45	6.50	1.57	.81	.46	.16	.07
AC-FT	13,450	481,100	461,900	428,300	284,000	333,100	173,900	42,020	21,700	12,300	4,220	1,750

CAL YR 1973 TOTAL 731,601 MEAN 2,004 MAX 30,700 MIN 13 CFSM 3.99 IN 54.21 AC-FT 1,451,000
WTR YR 1974 TOTAL 1,138,319 MEAN 3,119 MAX 34,700 MIN 16 CFSM 6.21 IN 84.35 AC-FT 2,258,000

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0930	44.53	35,200	1-16	2200	45.36	37,000
12-17	1900	39.84	17,900	3- 2	1530	37.67	14,300

NOTE.--No gage-height record July 24 to Sept. 5.

14194300 NORTH YAMHILL RIVER NEAR FAIRDALE, OREG.

LOCATION.--Lat 45°21'55", long 123°22'40", in SW¼ sec.25, T.2 S., R.6 W., Yamhill County, on right bank 0.4 mi (0.6 km) downstream from small tributary, 1.3 mi (2.1 km) upstream from Kutch Creek, 2.1 mi (3.4 km) west of Fairdale, 9.5 mi (15.3 km) west of Yamhill, and at mile 28.4 (45.7 km).

DRAINAGE AREA.--9.03 mi^2 (23.39 km^2).

PERIOD OF RECORD.--October 1958 to March 1966, October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map.

AVERAGE DISCHARGE.--14 years (1958-65, 1967-74), 51.9 ft^3/s (1.47 m^3/s), 78.05 in/yr (1,982 mm/yr), 37,600 acre-ft/yr (46.4 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 689 ft^3/s (19.5 m^3/s) Jan. 16, gage height, 5.09 ft (1.551 m); minimum, 2.5 ft^3/s (0.071 m^3/s) Sept. 24, 25.

Period of record: Maximum discharge, 2,330 ft^3/s (66.0 m^3/s) Dec. 22, 1964, gage height, 6.88 ft (2.097 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s); maximum gage height, 9.7 ft (2.96 m) Dec. 23, 1964 (backwater from debris); minimum discharge, 2.3 ft^3/s (0.065 m^3/s) Sept. 23-26, 1965.

REMARKS.--Records excellent. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	91	141	115	281	189	163	37	22	11	6.0	4.2
2	5.6	64	120	96	211	180	191	37	22	11	5.8	4.0
3	5.3	53	126	81	171	143	178	34	21	10	5.8	3.8
4	5.1	48	115	71	163	139	159	32	29	10	5.8	3.6
5	5.3	43	106	63	145	247	143	30	28	10	5.5	3.6
6	21	42	96	57	128	211	135	29	26	10	5.3	4.0
7	19	46	128	52	113	157	130	28	25	9.6	5.5	3.6
8	13	58	118	48	98	130	121	27	23	12	5.5	3.6
9	11	278	105	45	87	113	116	29	22	14	5.3	4.4
10	9.1	187	91	42	79	111	106	32	20	13	5.1	4.0
11	8.3	237	93	40	72	113	123	32	20	11	5.1	3.6
12	8.0	219	168	45	69	121	119	31	18	10	5.5	3.4
13	8.3	256	229	81	68	123	106	29	18	9.6	5.8	3.3
14	8.0	221	232	193	93	126	95	39	17	8.9	5.8	3.1
15	7.3	428	273	556	100	135	85	48	17	9.2	5.8	3.1
16	7.0	406	371	602	139	161	76	56	16	9.6	5.3	3.1
17	7.0	221	315	356	137	163	69	52	15	15	5.1	3.1
18	6.7	149	219	307	151	133	64	50	14	12	5.3	3.0
19	6.4	115	172	261	191	118	60	48	14	11	5.8	3.0
20	7.0	156	204	193	163	106	57	46	14	9.6	5.8	3.0
21	9.1	181	198	153	139	95	54	42	14	8.9	5.5	2.8
22	7.7	162	179	137	123	87	50	39	13	8.5	5.3	2.8
23	13	158	204	141	109	79	48	37	13	8.5	5.3	2.8
24	20	164	219	133	98	73	46	38	12	8.2	5.1	2.8
25	25	204	210	157	113	75	46	35	14	7.8	4.9	2.8
26	20	185	166	172	137	75	42	32	14	7.5	4.5	2.8
27	17	198	237	178	133	96	40	29	14	7.2	3.8	3.0
28	21	321	325	176	174	211	39	28	13	6.9	3.8	3.0
29	19	251	251	159	------	193	37	26	12	6.6	3.8	3.0
30	18	179	187	171	------	165	35	25	11	6.6	4.0	3.0
31	105	------	147	240	------	149	------	24	------	6.3	4.2	------
TOTAL	449.0	5,321	5,745	5,121	3,685	4,217	2,733	1,101	531	299.5	161.1	99.3
MEAN	14.5	177	185	165	132	136	91.1	35.5	17.7	9.66	5.20	3.31
MAX	105	428	371	602	281	247	191	56	29	15	6.0	4.4
MIN	5.1	42	91	40	68	73	35	24	11	6.3	3.8	2.8
CFSM	1.61	19.6	20.5	18.3	14.6	15.1	10.1	3.93	1.96	1.07	.58	.37
IN.	1.85	21.92	23.67	21.10	15.18	17.37	11.26	4.54	2.19	1.23	.66	.41
AC-FT	891	10,550	11,400	10,160	7,310	8,360	5,420	2,180	1,050	594	320	197

CAL YR 1973 TOTAL 18,926.7 MEAN 51.9 MAX 428 MIN 2.9 CFSM 5.75 IN 77.97 AC-FT 37,540
WTR YR 1974 TOTAL 29,462.9 MEAN 80.7 MAX 602 MIN 2.8 CFSM 8.94 IN 121.38 AC-FT 58,440

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	1830	4.61	606	12-28	0130	4.15	377
12-16	1500	4.18	404	1-16	1000	5.09	689

14195500 HASKINS CREEK RESERVOIR NEAR MCMINNVILLE, OREG.

LOCATION.--Lat 45°18'40", long 123°21'15", in NW¼ sec.18, T.3 S., R.5 W., Yamhill County, on control tower 250 ft (76 m) upstream from dam on Haskins Creek, 11 mi (18 km) northwest of McMinnville, and at mile 5.1 (8.2 km).

DRAINAGE AREA.--6.88 mi^2 (17.82 km^2).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by city of McMinnville).

EXTREMES.--Current year: Maximum contents observed, 733 acre-ft (904,000 m^3) Oct. 6, 7, 25, Nov. 1-13, 16, Aug. 13-31, Sept. 1-3, 15-17, 25-30, elevation, 835.0 ft (254.51 m); no contents, Dec. 5 to Mar. 26.

Period of record: Maximum contents observed, 748 acre-ft (922,000 m^3) Nov. 17, 1954, elevation, 835.65 ft (254.706 m); no contents most of time during winter months.

REMARKS.--Reservoir is formed by earthfill dam equipped with five siphon spillways which act as overflow weirs until priming occurs, approximately 835.5 ft (254.66 m) elevation. Capacity of reservoir is 733 acre-ft (904,000 m^3) between elevations 761.5 ft (232.11 m), invert of outlet tunnel, and 835.0 ft (254.51 m), crest of siphon spillways. Dead storage negligible. Rated capacity of three siphons is 700 ft^3/s (19.8 m^3/s) each and remaining two siphons 350 ft^3/s (9.91 m^3/s) each. Under normal operation, reservoir is filled in the spring (April or May) and drained when fall rains start. There is no planned storage during winter months; however, during periods of heavy runoff, inflow may be greater than capacity of outlet tunnel and there may be some temporary storage. Water is used for municipal supply of city of McMinnville.

COOPERATION.--Elevation and capacity table furnished by city of McMinnville, Water and Light Department.

REVISIONS.--WSP 1738: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	834.6	723	-
Oct. 31	834.9	731	+8
Nov. 30	811.5	314	-417
Dec. 31	-	0	-314
CAL YR 1973	-	-	0
Jan. 31	-	0	0
Feb. 28	-	0	0
Mar. 31	834.6	724	+724
Apr. 30	834.4	719	-5
May 31	834.4	719	0
June 30	833.3	695	-24
July 31	832.0	666	-29
Aug. 31	835.0	733	+67
Sept.30	835.0	733	0
WTR YR 1974	-	-	+10

14196000 HASKINS CREEK BELOW RESERVOIR, NEAR MCMINNVILLE, OREG.

LOCATION.--Lat 45°18'40", long 123°20'55", in NE¼ sec.18, T.3 S., R.5 W., Yamhill County, on right bank 800 ft (244 m) downstream from Haskins Creek Reservoir, 11 mi (18 km) northwest of McMinnville, and at mile 5.0 (8.0 km).

DRAINAGE AREA.--6.90 mi^2 (17.87 km^2).

PERIOD OF RECORD.--October 1951 to current year. Maximum discharge for water year 1957, published in WSP 1518, has been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 707 ft (215 m) above mean sea level (topographic survey of 1955). Prior to Aug. 5, 1952, water-stage recorder at site 600 ft (183 m) upstream at different datum.

AVERAGE DISCHARGE.--23 years, 33.8 ft^3/s (0.96 m^3/s), 66.52 in/yr (1,690 mm/yr), 24,490 acre-ft/yr (30.2 hm^3/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum daily discharge, 340 ft^3/s (9.63 m^3/s) Jan. 15; minimum daily, 3.2 ft^3/s (0.091 m^3/s) Mar. 29.
Period of record: Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Dec. 23, 1964, gage height, 5.98 ft (1.823 m), from floodmark, from rating curve extended above 400 ft^3/s (11.3 m^3/s) on basis of slope-area measurement of peak flow; maximum daily, 515 ft^3/s (14.6 m^3/s) Jan. 21, 1972; minimum daily, 0.10 ft^3/s (0.003 m^3/s) Oct. 27, 28, 1966.

REMARKS.--Records good except those below 5 ft^3/s (0.14 m^3/s), which are fair. All records given herein include flow in pipeline which diverts 600 ft (183 m) above station for municipal supply of McMinnville. Flow regulated by Haskins Creek Reservoir (see station 14195500); during winter months reservoir is empty except when inflow exceeds capacity of outlet tunnel. Monthly figures adjusted for diversion from McGuire Lake in the Nestucca River basin.

COOPERATION.--Meter readings for diversion and elevations of Haskins Creek Reservoir furnished by city of McMinnville.

REVISIONS.--WSP 1738: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	30	153	97	172	163	112	21	14	12	12	13
2	5.5	19	136	83	137	158	117	21	14	11	15	14
3	5.5	15	117	56	112	124	108	19	15	10	19	11
4	5.2	14	95	49	112	111	114	18	16	11	14	11
5	4.6	13	66	44	96	166	92	17	16	12	11	11
6	5.6	13	58	40	84	135	97	17	15	8.7	11	8.9
7	10	15	85	38	72	122	72	17	13	8.8	10	8.7
8	8.2	26	71	36	64	98	81	16	12	9.4	11	8.7
9	7.9	145	63	34	57	84	63	17	12	9.8	12	7.0
10	7.3	86	55	33	49	83	58	18	12	7.5	11	6.7
11	6.6	121	65	31	43	81	71	18	11	6.3	13	7.0
12	6.2	134	128	35	41	85	58	16	13	7.3	11	6.8
13	6.0	150	160	53	41	86	49	15	12	7.0	15	6.8
14	5.6	160	173	115	50	94	49	20	11	7.4	15	6.8
15	5.1	263	179	340	66	98	47	23	11	8.5	16	7.4
16	4.9	257	207	320	99	110	43	25	11	10	16	9.6
17	5.1	186	194	283	94	107	41	24	10	11	16	12
18	5.1	181	155	253	109	92	38	23	10	7.3	16	11
19	5.1	171	131	180	137	81	36	22	11	6.7	16	11
20	4.9	166	169	149	117	72	34	21	11	6.5	16	9.9
21	5.3	158	160	118	99	65	31	20	9.3	8.2	15	9.1
22	5.1	153	146	99	85	57	30	19	11	8.2	15	12
23	5.3	142	145	92	74	53	28	18	9.3	11	15	11
24	10	138	154	79	65	48	27	18	9.2	12	17	11
25	12	138	150	89	73	48	26	17	11	11	15	12
26	9.4	141	126	99	92	23	25	16	10	11	14	12
27	8.1	140	168	103	93	4.9	24	16	8.8	13	14	12
28	9.2	153	180	98	149	6.0	22	15	8.5	12	15	11
29	8.9	162	169	90	------	3.2	21	14	11	11	16	10
30	7.9	162	141	91	------	76	21	15	12	11	15	10
31	32	------	117	157	------	94	------	15	------	12	16	------
TOTAL	233.0	3,652	4,116	3,384	2,482	2,628.1	1,635	571	350.1	298.6	443	298.4
MEAN	7.52	122	133	109	88.6	84.8	54.5	18.4	11.7	9.63	14.3	9.95
MAX	32	263	207	340	172	166	117	25	16	13	19	14
MIN	4.6	13	55	31	41	3.2	21	14	8.5	6.3	10	6.7
AC-FT	462	7,240	8,160	6,710	4,920	5,210	3,240	1,130	694	592	879	592
MEAN†	7.38	115	128	109	88.6	96.5	54.4	18.4	11.3	7.61	4.10	.284
CFSM†	1.07	16.7	18.6	15.8	12.8	14.0	7.88	2.67	1.64	1.10	.59	.41
IN.†	1.23	18.54	21.34	18.24	13.37	16.12	8.80	3.07	1.82	1.27	.68	.46
AC-FT†	454	6,820	7,850	6,710	4,920	5,930	3,240	1,130	670	468	252	169

CAL YR 1973 TOTAL 13,107.7 MEAN 35.9 MAX 263 MIN 1.7 AC-FT 26,000 MEAN† 34.4 CFSM† 4.99 IN.† 67.71 AC-FT† 24,910
WTR YR 1974 TOTAL 20,091.2 MEAN 55.0 MAX 340 MIN 3.2 AC-FT 39,850 MEAN† 53.4 CFSM† 7.74 IN.† 105.05 AC-FT† 38,650

† Adjusted for change in contents in Haskins Creek Reservoir and diversion from McGuire Lake.

14198500 MOLALLA RIVER ABOVE PINE CREEK, NEAR WILHOIT, OREG.

LOCATION.--Lat 45°00'35", long 122°28'45", in NE¼NE¼ sec.31, T.6 S., R.3 E., Clackamas County, on right bank 0.5 mi (0.8 km) upstream from Pine Creek, 5 mi (8 km) southeast of Wilhoit, and at mile 32.5 (52.3 km).

DRAINAGE AREA.--97.0 mi^2 (251.2 km^2), at gaging cable 0.2 mi (0.3 km) downstream.

PERIOD OF RECORD.--October 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 791.35 ft (241.203 m) above mean sea level (Bureau of Public Roads bench mark). Oct. 1, 1935, to Sept. 30, 1945, and Oct. 1, 1945, to Feb. 9, 1961, water-stage recorder at site 0.3 mi (0.5 km) downstream at datums 8.42 ft (2.566 m) and 10.44 ft (3.182 m) lower, respectively. Feb. 10, 1961, to July 21, 1966, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 5.99 ft (1.826 m) lower.

AVERAGE DISCHARGE.--39 years, 555 ft^3/s (15.7 m^3/s), 77.70 in/yr (1,974 mm/yr), 402,100 acre-ft/yr (496 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 15,500 ft^3/s (439 m^3/s) Jan. 15, gage height, 13.22 ft (4.029 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s), on basis of slope-area measurement of peak flow; minimum daily, 31 ft^3/s (0.88 m^3/s) Aug. 30.

Period of record: Maximum discharge, 24,300 ft^3/s (688 m^3/s) Dec. 22, 1964, gage height, 16.3 ft (4.97 m), from floodmark, site and datum then in use, from rating curve extended above 5,200 ft^3/s (147 m^3/s); minimum, 18 ft^3/s (0.51 m^3/s) Oct. 3, 1965.

REMARKS.--Records good. No regulation or diversion above station. Records given herein are for measuring site.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	1,590	1,580	1,170	2,300	1,340	1,940	803	420	195	61	35
2	89	746	1,220	910	1,510	1,170	1,740	723	480	180	58	35
3	82	490	998	820	1,130	950	1,480	646	550	153	57	35
4	75	442	863	780	1,240	848	1,220	646	1,000	145	57	36
5	70	365	800	720	1,040	1,550	1,180	816	1,500	142	55	37
6	85	333	1,160	680	848	1,580	1,380	964	1,200	153	52	38
7	121	337	3,840	640	747	1,090	1,310	993	950	132	51	38
8	92	584	2,430	600	666	848	1,140	943	700	110	49	37
9	82	3,620	1,460	580	646	747	1,120	855	600	174	49	39
10	75	3,450	1,040	550	633	759	1,070	784	490	159	48	42
11	73	3,060	1,040	533	620	895	1,530	950	500	153	47	40
12	77	2,950	1,310	870	582	1,040	1,640	1,170	520	102	46	39
13	73	2,430	1,730	3,240	525	979	1,220	979	530	124	46	38
14	67	2,200	1,590	4,120	652	1,040	993	835	500	120	47	37
15	64	4,320	1,880	10,000	772	1,900	902	797	460	112	46	36
16	61	4,960	3,470	7,650	1,580	2,220	816	800	400	95	42	35
17	58	2,540	4,440	4,620	1,290	2,260	766	870	370	142	41	36
18	55	1,530	2,810	3,270	1,550	1,560	803	840	360	171	44	36
19	54	1,050	1,780	3,090	2,800	1,230	797	900	350	150	47	35
20	64	1,290	3,240	1,930	1,700	1,090	747	960	310	134	62	36
21	148	1,250	4,450	1,370	1,250	929	766	830	270	120	66	36
22	145	1,080	2,990	1,090	986	809	797	730	250	110	58	36
23	133	966	2,630	1,120	841	741	841	660	240	105	49	36
24	222	918	2,190	1,090	735	700	778	700	220	93	49	35
25	297	982	2,460	1,180	943	766	790	770	210	89	50	34
26	254	870	1,720	1,150	1,090	915	679	880	210	81	45	33
27	200	1,520	3,170	1,090	979	1,180	666	740	200	81	40	35
28	309	3,380	3,280	1,120	1,520	2,000	700	620	190	77	33	38
29	357	2,760	2,850	1,070	------	2,290	672	550	190	73	32	38
30	282	1,970	2,380	1,120	------	2,570	772	470	195	69	31	38
31	1,370	------	1,640	2,340	------	2,120	------	440	------	66	33	------
TOTAL	5,232	53,983	68,441	60,513	31,175	40,116	31,255	24,664	14,365	3,810	1,491	1,099
MEAN	169	1,799	2,208	1,952	1,113	1,294	1,042	796	479	123	48.1	36.6
MAX	1,370	4,960	4,450	10,000	2,800	2,570	1,940	1,170	1,500	195	66	42
MIN	54	333	800	533	525	700	666	440	190	66	31	33
CFSM	1.74	18.5	22.8	20.1	11.5	13.3	10.7	8.21	4.94	1.27	.50	.38
IN.	2.01	20.70	26.25	23.21	11.96	15.38	11.99	9.46	5.51	1.46	.57	.42
AC-FT	10,380	107,100	135,800	120,000	61,840	79,570	61,990	48,920	28,490	7,560	2,960	2,180

CAL YR 1973 TOTAL 215,106 MEAN 589 MAX 4,960 MIN 23 CFSM 6.07 IN 82.49 AC-FT 426,700
WTR YR 1974 TOTAL 336,144 MEAN 921 MAX 10,000 MIN 31 CFSM 9.49 IN 128.91 AC-FT 666,700

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1030	7.04	4,360	12-20	2230	8.02	5,780
11-16	0100	8.46	6,340	12-27	2300	6.85	4,200
11-28	1230	6.89	4,100	1-15	1000	13.22	15,500
12- 7	1100	7.39	4,800	2-19	0030	7.79	3,940
12-17	0700	7.71	5,310				

14200000 MOLALLA RIVER NEAR CANBY, OREG.

LOCATION.--Lat 45°14'40", long 122°41'10", in NW¼NE¼ sec.9, T.4 S., R.1 E., Clackamas County, on left bank at upstream side of Goods bridge, 1.5 mi (2.4 km) south of Canby, and at mile 6.01 (9.67 km).

DRAINAGE AREA.--323 mi² (837 km²).

PERIOD OF RECORD.--August 1928 to September 1959, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 104.00 ft (31.699 m) above mean sea level. Prior to Oct. 24, 1933, nonrecording gage and Oct. 24, 1933, to Sept. 26, 1955, water-stage recorder at present site and at datum 1.00 ft (0.305 m) higher. Sept. 27, 1955, to June 3, 1956, water-stage recorder at site 145 ft (44 m) downstream at present datum. June 4, 1956, to Sept. 30, 1959, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 1.98 ft (0.604 m) lower. Oct. 1, 1963, to May 4, 1964, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--42 years, 1,170 ft³/s (33.13 m³/s), 49.19 in/yr (1,249 mm/yr), 847,700 acre-ft/yr (1.05 km³/yr).

EXTREMES.--Current year: Maximum discharge, 31,200 ft³/s (884 m³/s) Jan. 15, gage height, 14.43 ft (4.398 m); minimum, 44 ft³/s (1.25 m³/s) Sept. 25, 26.
Period of record: Maximum discharge, 43,600 ft³/s (1,230 m³/s) Dec. 22, 1964, gage height, 16.76 ft (5.108 m); minimum, 20 ft³/s (0.57 m³/s) Aug. 27, 1959.

REMARKS.--Records excellent. No regulation. Numerous small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1248: 1929-30, 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	3,300	3,820	2,640	4,000	3,160	3,680	1,340	789	347	116	74
2	173	1,550	2,930	2,080	2,970	2,640	3,540	1,240	890	336	106	73
3	164	995	2,450	1,670	2,270	2,130	3,040	1,130	936	307	118	74
4	150	923	2,100	1,400	2,470	1,800	2,530	1,100	1,110	287	122	81
5	142	852	1,790	1,120	2,340	2,510	2,290	1,210	2,270	303	118	83
6	146	820	2,020	968	1,930	3,770	2,590	1,450	1,850	307	110	73
7	209	836	6,120	878	1,600	2,590	2,470	1,470	1,460	277	106	71
8	195	905	5,110	766	1,390	1,950	2,200	1,320	1,190	283	98	74
9	173	5,020	3,300	661	1,260	1,580	2,280	1,240	1,050	394	98	84
10	159	5,560	2,470	612	1,190	1,420	2,490	1,150	970	290	91	108
11	155	5,020	2,200	540	1,120	1,550	2,800	1,280	1,000	277	88	88
12	155	5,740	2,450	804	1,050	1,930	3,270	1,960	1,050	258	93	81
13	168	5,280	3,560	3,480	970	2,330	2,530	1,660	1,030	274	95	67
14	159	4,680	3,290	5,820	1,000	2,470	2,070	1,460	983	223	91	60
15	150	7,650	3,430	20,700	1,100	3,810	1,820	1,460	916	223	88	57
16	146	12,300	6,140	21,000	2,050	4,220	1,600	1,480	795	209	89	57
17	139	6,380	9,100	9,870	2,040	4,420	1,470	1,410	748	225	86	56
18	139	3,980	5,920	6,110	1,940	3,240	1,470	1,350	718	261	89	54
19	131	2,720	3,940	5,960	4,600	2,570	1,420	1,710	673	243	95	54
20	131	2,710	5,060	4,070	3,240	2,130	1,350	1,610	619	217	114	56
21	227	3,240	10,300	2,920	2,530	1,810	1,290	1,410	553	195	116	56
22	351	3,590	6,200	2,290	2,080	1,610	1,330	1,280	509	177	100	52
23	275	2,940	5,070	2,450	1,750	1,430	1,350	1,190	481	164	91	49
24	320	2,890	4,070	2,540	1,550	1,310	1,260	1,190	441	154	93	48
25	428	2,750	5,000	2,510	1,650	1,290	1,290	1,350	415	145	93	47
26	423	2,780	3,740	2,430	2,310	1,480	1,260	1,470	415	140	83	46
27	362	2,850	4,840	2,450	2,480	1,750	1,220	1,300	407	136	70	50
28	390	6,220	6,040	2,690	3,310	3,050	1,230	1,130	366	131	68	56
29	682	6,630	5,040	2,360	------	3,740	1,220	1,000	351	133	65	58
30	534	4,820	4,590	2,230	------	4,460	1,290	896	351	127	67	58
31	1,450	------	3,500	3,150	------	4,170	------	814	------	125	71	------
TOTAL	8,617	115,931	135,590	119,169	58,190	78,320	59,650	41,060	25,336	7,168	2,928	1,945
MEAN	278	3,864	4,374	3,844	2,078	2,526	1,988	1,325	845	231	94.5	64.8
MAX	1,450	12,300	10,300	21,000	4,600	4,460	3,680	1,960	2,270	394	122	108
MIN	131	820	1,790	540	970	1,290	1,220	814	351	125	65	46
CFSM	.86	12.0	13.5	11.9	6.43	7.82	6.15	4.10	2.62	.72	.29	.20
IN.	.99	13.35	15.62	13.72	6.70	9.02	6.87	4.73	2.92	.83	.34	.22
AC-FT	17,090	229,900	268,900	236,400	115,400	155,300	118,300	81,440	50,250	14,220	5,810	3,860

CAL YR 1973 TOTAL 443,984 MEAN 1,216 MAX 12,300 MIN 50 CFSM 3.76 IN 51.13 AC-FT 880,600
WTR YR 1974 TOTAL 653,904 MEAN 1,792 MAX 21,000 MIN 46 CFSM 5.55 IN 75.31 AC-FT 1,297,000

PEAK DISCHARGE (BASE, 7,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0830	10.35	14,400	12-17	1100	8.90	10,400
11-28	0030	8.11	8,420	12-21	0430	9.47	11,800
12- 7	1400	8.08	8,350	1-15	1700	14.43	31,200

14200300 SILVER CREEK AT SILVERTON, OREG.

LOCATION.--Lat 45°00'34", long 122°47'15", in NE¼ sec.34, T.6 S., R.1 W., on right bank 300 ft (91 m) downstream from railroad bridge in Silverton, 2.5 mi (4.0 km) upstream from Brush Creek, and at mile 3.4 (5.5 km).

DRAINAGE AREA.--47.9 mi^2 (124.1 km^2).

PERIOD OF RECORD.--October 1963 to September 1968, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 218.5 ft (66.60 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 221 ft^3/s (6.26 m^3/s), 62.66 in/yr (1,592 mm/yr), 160,100 acre-ft/yr (197 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,680 ft^3/s (133 m^3/s) Jan. 15, gage height, 9.82 ft (2.993 m); minimum, 5.0 ft^3/s (0.14 m^3/s) Sept. 26.

Period of record: Maximum discharge, 5,900 ft^3/s (167 m^3/s) Dec. 22, 1964, gage height, 11.15 ft (3.399 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 20, 21, 1967.

REMARKS.--Records excellent. No regulation. Several small diversions for irrigation and municipal use above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	545	935	661	870	643	860	117	69	28	12	8.4
2	21	377	809	557	675	597	800	113	65	29	12	7.6
3	19	292	757	477	552	485	720	105	62	27	11	6.9
4	19	405	673	409	717	462	620	101	111	25	11	6.9
5	18	385	617	351	584	1,010	575	101	207	30	11	7.6
6	24	409	661	306	481	1,040	570	99	157	31	10	7.6
7	39	453	1,110	288	401	707	540	96	128	27	9.8	6.9
8	25	497	944	281	341	544	520	88	109	27	9.8	6.6
9	22	968	769	260	299	442	550	87	96	39	9.8	8.8
10	20	912	661	254	263	394	570	97	87	33	9.3	16
11	19	993	609	233	235	401	600	140	79	34	9.3	9.8
12	21	1,230	661	245	221	514	550	147	71	30	9.3	8.0
13	21	1,240	865	585	205	481	460	113	66	26	9.3	7.3
14	19	1,380	869	930	258	531	420	138	62	22	9.8	6.3
15	19	1,800	853	3,080	249	741	380	147	62	21	9.8	6.3
16	17	1,830	1,210	2,900	383	736	370	171	59	21	8.8	6.3
17	17	1,200	1,610	1,730	412	731	340	150	52	66	8.4	6.6
18	16	908	1,250	1,280	593	579	320	161	47	80	8.4	6.3
19	17	741	989	1,010	1,070	477	310	181	45	56	9.8	6.3
20	17	825	1,340	712	745	386	295	159	44	42	15	6.0
21	56	966	1,820	561	648	321	280	145	40	33	12	5.8
22	56	1,020	1,270	489	531	281	270	135	38	28	10	5.8
23	47	908	1,170	506	446	246	260	126	38	26	8.8	5.5
24	63	873	1,020	450	390	295	230	124	34	22	8.4	5.8
25	91	930	962	527	493	320	210	128	37	21	8.4	5.5
26	80	894	805	566	602	350	161	115	43	19	7.6	5.2
27	74	1,040	1,060	621	570	450	147	103	53	18	6.9	5.5
28	148	1,480	1,080	652	721	760	133	92	48	16	6.6	6.0
29	189	1,450	1,060	597	------	950	124	87	36	16	6.6	6.0
30	143	1,150	948	575	------	1,100	122	82	30	15	7.3	6.0
31	477	------	797	755	------	930	------	74	------	14	8.0	------
TOTAL	1,837	28,121	30,164	22,848	13,955	17,904	12,327	3,722	2,075	922	294.2	209.6
MEAN	59.3	937	973	737	498	578	411	120	69.2	29.7	9.49	6.99
MAX	477	1,830	1,820	3,080	1,070	1,100	860	181	207	80	15	16
MIN	16	292	609	233	205	246	122	74	30	14	6.6	5.2
CFSM	1.24	19.6	20.3	15.4	10.4	12.1	8.58	2.51	1.44	.62	.20	.15
IN.	1.43	21.84	23.43	17.74	10.84	13.90	9.57	2.89	1.61	.72	.23	.16
AC-FT	3,640	55,780	59,830	45,320	27,680	35,510	24,450	7,380	4,120	1,830	584	416

CAL YR 1973 TOTAL 94,493.5 MEAN 259 MAX 1,830 MIN 5.3 CFSM 5.41 IN 73.39 AC-FT 187,400
WTR YR 1974 TOTAL 134,378.8 MEAN 368 MAX 3,080 MIN 5.2 CFSM 7.68 IN 104.36 AC-FT 266,500

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2230	6.18	2,190	1-15	1030	9.82	4,680
11-28	1800	5.39	1,710	2-18	2400	5.20	1,390
12-17	0830	5.46	1,760	3- 5	1930	5.63	1,660
12-21	0030	6.51	2,410				

NOTE.--No gage-height record Mar. 24 to Apr. 25.

14201500 BUTTE CREEK AT MONITOR, OREG.

LOCATION.--Lat 45°06'06", long 122°44'42", in SE¼SE¼ sec.25, T.5 S., R.1 W., Marion County, on left bank at downstream side of highway bridge at Monitor and at mile 7.7 (12.4 km).

DRAINAGE AREA.--58.7 mi^2 (152.0 km^2).

PERIOD OF RECORD.--January to December 1936, October 1940 to September 1952, October 1966 to current year. Monthly discharge only for January to December 1936, published in WSP 1318.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47.2 m) from topographic map. Jan. 20 to Oct. 22, 1936, nonrecording gage at present site at different datum. Oct. 23 to Dec. 19, 1936, nonrecording gage at site 70 ft (21 m) downstream at different datum. Oct. 1, 1940, to Sept. 30, 1952, nonrecording gage at present site at datum 151.35 ft (46.131 m) above mean sea level.

AVERAGE DISCHARGE.--20 years (1940-52, 1966-74), 231 ft^3/s (6.54 m^3/s), 53.44 in/yr (1,357 mm/yr), 167,400 acre-ft/yr (206 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 6,180 ft^3/s (175 m^3/s) Jan. 15, gage height, 14.07 ft (4.289 m); minimum, 1.9 ft^3/s (0.054 m^3/s) Aug. 29.

Period of record: Maximum discharge, 7,310 ft^3/s (207 m^3/s) Jan. 21, 1972, gage height, 15.26 ft (4.651 m), from floodmark; minimum, 0.15 ft^3/s (0.004 m^3/s) Aug. 25, 1967.

REMARKS.--Records good. No regulation. Diversions for irrigation by pumping above station.

REVISIONS.--WSP 2135: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	392	731	646	926	716	738	175	125	34	4.7	4.2
2	18	218	576	534	716	627	691	165	128	34	4.7	4.0
3	17	155	490	439	582	509	582	159	128	30	4.8	3.3
4	15	190	406	376	630	430	512	159	159	28	6.0	3.6
5	15	168	379	320	543	677	449	165	229	33	5.6	3.9
6	16	161	451	295	467	856	476	179	182	36	5.4	4.5
7	31	168	1,130	272	408	620	449	180	156	31	7.3	3.9
8	25	190	888	248	349	467	400	177	138	31	6.0	4.8
9	21	888	653	228	316	379	449	167	126	50	6.4	8.0
10	19	857	524	212	298	337	470	164	117	45	6.2	12
11	18	900	478	199	287	347	506	184	114	41	7.0	9.8
12	18	1,090	560	270	274	481	470	219	112	36	6.8	7.7
13	18	1,020	857	911	258	550	395	184	109	31	6.0	6.8
14	17	1,060	769	1,340	247	537	347	182	102	26	7.0	6.0
15	16	1,860	741	4,400	243	684	311	187	98	20	7.3	6.0
16	15	2,260	1,280	4,360	447	727	276	196	91	19	6.4	6.4
17	14	1,210	1,710	1,900	444	779	256	184	83	38	5.8	5.8
18	13	820	1,180	1,360	503	596	245	185	79	62	5.4	5.8
19	13	611	865	1,210	968	473	227	196	75	50	7.3	5.8
20	13	706	1,290	873	702	389	213	185	68	42	9.3	5.2
21	44	896	1,950	667	606	337	204	175	63	34	8.7	3.3
22	58	872	1,270	540	512	298	204	170	58	27	7.0	3.2
23	43	696	1,060	512	424	269	196	165	56	23	5.2	3.7
24	59	636	915	464	361	249	184	168	49	20	4.7	3.9
25	79	643	915	484	416	252	209	182	47	16	5.0	4.0
26	71	604	748	484	617	260	191	189	48	12	5.0	3.7
27	57	620	1,010	490	596	321	182	179	50	11	2.8	4.0
28	79	1,260	1,170	499	821	664	172	160	50	9.3	2.2	4.2
29	121	1,280	1,110	487	------	745	167	146	42	9.5	1.9	4.5
30	89	943	992	487	------	922	173	136	39	7.7	2.6	6.8
31	230	------	801	779	------	775	------	129	------	6.4	3.3	------
TOTAL	1,282	23,374	27,899	26,286	13,961	16,273	10,344	5,391	2,921	892.9	173.8	158.8
MEAN	41.4	779	900	848	499	525	345	174	97.4	28.8	5.61	5.29
MAX	230	2,260	1,950	4,400	968	922	738	219	229	62	9.3	12
MIN	13	155	379	199	243	249	167	129	39	6.4	1.9	3.2
CFSM	.71	13.3	15.3	14.4	8.50	8.94	5.88	2.96	1.66	.49	.10	.09
IN.	.81	14.81	17.68	16.66	8.85	10.31	6.56	3.42	1.85	.57	.11	.10
AC-FT	2,540	46,360	55,340	52,140	27,690	32,280	20,520	10,690	5,790	1,770	345	315

CAL YR 1973 TOTAL 85,748.1 MEAN 235 MAX 2,260 MIN 2.2 CFSM 4.00 IN 54.34 AC-FT 170,100
WTR YR 1974 TOTAL 128,956.5 MEAN 353 MAX 4,400 MIN 1.9 CFSM 6.01 IN 81.72 AC-FT 255,800

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0400	9.84	2,900	12-21	0030	9.17	2,490
11-28	1530	7.60	1,640	1-15	1100	14.07	6,180
12-17	0730	8.20	1,950				

14202500 TUALATIN RIVER NEAR GASTON, OREG.

LOCATION.--Lat 45°26'11", long 123°10'07", in SE¼SW¼ sec.34, T.1 S., R.4 W., Washington County, on right bank 1.5 mi (2.4 km) west of Gaston, and at mile 63.9 (102.8 km).

DRAINAGE AREA.--48.5 mi^2 (125.6 km^2).

PERIOD OF RECORD.--October 1940 to September 1956, October 1972 to current year. Prior to October 1973 published as "at Gaston."

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), by barometer. Prior to May 20, 1942, water-stage recorder at site 1.5 mi (2.4 km) downstream at datum 164.18 ft (50.042 m) above mean sea level. May 20, 1942, to Sept. 30, 1956, nonrecording gage at present site at different datum.

AVERAGE DISCHARGE.--18 years (1940-56, 1972-74), 203 ft^3/s (5.75 m^3/s), 147,100 acre-ft/yr (181 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,560 ft^3/s (101 m^3/s) Jan. 15, gage height, 17.11 ft (5.215 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Sept. 25-28.

Period of record: Maximum discharge, 8,170 ft^3/s (231 m^3/s) Dec. 21, 1955, gage height, 13.18 ft (4.017 m), site and datum then in use; minimum, 0.20 ft^3/s (0.006 m^3/s) Sept. 22, 23, 1951, Aug. 14, 15, Sept. 25, Oct. 8, 1952.

REMARKS.--Records good. Slight diurnal fluctuation caused by logponds upstream. Small diversions for irrigation above station. In 1949 city of Hillsboro began diverting about 5 ft^3/s (0.14 m^3/s) for municipal supply. Some water is diverted from Roaring Creek upstream from Forest Grove municipal supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	243	514	510	1,260	888	645	120	60	21	16	32
2	28	145	420	420	871	946	800	120	57	21	23	31
3	27	106	421	360	648	650	745	110	55	22	30	33
4	27	107	386	320	675	527	627	105	94	18	31	35
5	27	95	333	290	558	844	573	100	107	20	32	36
6	70	83	301	260	444	842	507	100	94	19	40	35
7	102	97	413	240	371	575	453	98	86	21	41	33
8	65	106	374	220	325	441	388	91	77	23	41	34
9	49	960	315	200	294	371	358	91	70	39	39	40
10	41	594	281	190	273	348	322	99	62	37	38	38
11	34	708	289	190	253	384	332	101	54	27	41	37
12	30	690	598	300	241	428	327	95	49	24	42	35
13	33	838	1,080	500	233	501	294	91	43	23	45	33
14	36	851	1,030	1,000	278	509	271	117	41	21	45	32
15	33	1,760	1,340	2,900	298	581	251	131	43	20	41	32
16	31	1,780	1,650	3,000	625	661	233	149	42	21	39	29
17	29	912	1,430	1,690	561	666	220	132	36	35	38	28
18	28	565	1,000	1,500	638	498	200	123	31	36	41	23
19	27	391	751	1,250	968	413	190	114	30	26	41	20
20	27	544	994	853	721	363	180	106	29	23	43	18
21	36	715	968	620	552	323	170	99	28	19	41	17
22	34	631	788	498	465	299	160	94	27	18	41	16
23	38	552	918	455	391	280	160	91	29	19	39	18
24	66	634	920	406	343	265	160	105	27	20	38	13
25	102	762	970	498	355	259	150	98	26	19	38	10
26	91	699	712	541	524	263	140	88	34	17	36	10
27	69	717	1,120	527	505	288	140	81	36	20	34	10
28	69	1,310	1,450	548	855	857	130	76	31	20	33	10
29	73	978	1,170	463	------	782	130	72	27	19	34	11
30	62	674	855	511	------	614	120	69	24	18	36	11
31	199	------	675	952	------	513	------	65	------	17	36	------
TOTAL	1,612	19,247	24,466	22,212	14,525	16,179	9,376	3,131	1,449	703	1,153	760
MEAN	52.0	642	789	717	519	522	313	101	48.3	22.7	37.2	25.3
MAX	199	1,780	1,650	3,000	1,260	946	800	149	107	39	45	40
MIN	27	83	281	190	233	259	120	65	24	17	16	10
AC-FT	3,200	38,180	48,530	44,060	28,810	32,090	18,600	6,210	2,870	1,390	2,290	1,510

CAL YR 1973 TOTAL 72,149.8 MEAN 198 MAX 1,780 MIN 9.4 AC-FT 143,100
WTR YR 1974 TOTAL 114,813.0 MEAN 315 MAX 3,000 MIN 10 AC-FT 227,700

PEAK DISCHARGE (BASE, 2,000 CFS).--Nov. 15 (2000) 2,690 cfs (15.20 ft); Jan. 15 (1800) & (1830) 3,560 cfs (17.11 ft).

14202850 SCOGGINS CREEK ABOVE HENRY HAGG LAKE, NEAR GASTON, OREG.

LOCATION.--Lat 45°30'06", long 123°15'06", in SW¼NW¼ sec.12, T.1 S., R.5 W., Washington County, on left bank 0.8 mi (1.3 km) upstream from Scoggins Valley Road, 2.3 mi (3.7 km) upstream from Sain Creek, and at mile 8.6 (13.8 km).

DRAINAGE AREA.--15.9 mi² (41.2 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 620 ft (190 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Jan. 15, gage height, 6.05 ft (1.844 m); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 22-26.

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Jan. 15, 1974, gage height, 6.05 ft (1.844 m); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 22-26, 1974.

REMARKS.--Records excellent. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	38	169	169	378	327	257	37	18	7.7	3.0	2.7
2	3.4	25	138	141	277	323	331	36	17	8.0	2.8	2.2
3	3.4	21	138	121	220	237	290	33	17	7.7	2.8	2.0
4	3.2	22	123	105	214	203	250	32	18	7.0	2.8	2.4
5	3.4	20	110	92	181	250	223	30	29	7.4	2.7	2.6
6	19	21	101	82	157	240	195	29	21	7.0	2.7	2.4
7	18	24	138	75	136	192	172	29	19	7.0	2.8	2.3
8	11	39	127	69	118	159	150	27	18	8.7	2.8	2.0
9	8.0	316	110	63	107	136	138	27	17	13	2.8	2.6
10	6.8	206	94	58	96	132	121	29	16	11	2.6	2.7
11	6.2	267	105	55	87	134	118	29	15	9.4	2.7	2.4
12	5.7	229	200	69	81	150	109	26	14	8.3	2.8	2.0
13	6.5	264	297	162	79	159	99	26	13	7.7	3.4	1.8
14	6.2	270	339	355	109	172	90	36	12	6.8	3.8	1.6
15	5.4	596	483	1,490	121	200	82	34	13	6.5	3.8	1.6
16	5.2	494	558	1,330	217	223	76	35	13	6.8	3.2	1.6
17	5.0	260	451	596	200	214	71	33	12	15	2.8	1.5
18	4.7	172	312	505	240	176	66	31	11	11	3.2	1.4
19	4.7	127	240	405	283	150	63	30	9.8	8.7	3.6	1.4
20	5.2	159	316	287	229	132	59	29	9.8	7.4	3.8	1.4
21	7.7	189	300	217	186	114	55	27	9.8	6.5	3.6	1.3
22	6.8	174	264	179	157	103	54	26	9.4	5.9	3.2	1.2
23	8.0	174	287	157	136	94	52	25	9.4	5.7	3.2	1.2
24	16	195	297	138	121	86	50	28	9.0	5.4	3.2	1.1
25	19	229	287	150	130	84	47	27	10	5.0	2.8	1.1
26	14	209	231	152	164	81	46	24	11	4.5	2.6	1.2
27	11	231	387	157	172	105	43	23	12	4.5	2.4	1.2
28	12	382	451	157	283	312	41	22	10	4.0	2.3	1.3
29	11	297	355	145	------	264	39	21	8.7	3.8	2.2	1.3
30	9.8	214	264	150	------	223	37	20	7.4	3.8	2.4	1.3
31	35	------	209	304	------	195	------	19	------	3.4	2.7	------
TOTAL	284.7	5,864	7,881	8,135	4,879	5,570	3,424	880	409.3	224.6	91.5	52.8
MEAN	9.18	195	254	262	174	180	114	28.4	13.6	7.25	2.95	1.76
MAX	35	596	558	1,490	378	327	331	37	29	15	3.8	2.7
MIN	3.2	20	94	55	79	81	37	19	7.4	3.4	2.2	1.1
CFSM	.58	12.3	16.0	16.5	10.9	11.3	7.17	1.79	.86	.46	.19	.11
IN.	.67	13.72	18.44	19.03	11.42	13.03	8.01	2.06	.96	.53	.21	.12
AC-FT	565	11,630	15,630	16,140	9,680	11,050	6,790	1,750	812	445	181	105

CAL YR 1973 TOTAL 23,534.8 MEAN 64.5 MAX 596 MIN 1.5 CFSM 4.06 IN 55.06 AC-FT 46,680
WTR YR 1974 TOTAL 37,695.9 MEAN 103 MAX 1,490 MIN 1.1 CFSM 6.48 IN 88.19 AC-FT 74,770

PEAK DISCHARGE (BASE, 490 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	1830	5.08	864	12-27	1900	4.69	574
12-16	1500	4.80	637	1-15	1500	6.05	1,860

14202920 SAIN CREEK NEAR GASTON, OREG.

LOCATION.--Lat 45°28'50", long 123°14'40", in SE¼ sec.13, T.1 S., R.5 W., Washington County, on left bank 7.2 mi (11.6 km) northwest of Gaston and at river mile 1.5 (2.4 km).

DRAINAGE AREA.--10.3 mi^2 (26.7 km^2).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 683 ft^3/s (19.3 m^3/s) Jan. 16, gage height, 5.69 ft (1.734 m); minimum, 0.01 ft^3/s (0.001 m^3/s) Sept. 21.

Period of record: Maximum discharge, 683 ft^3/s (19.3 m^3/s) Jan. 16, 1974, gage height, 5.69 ft (1.734 m); minimum, 0.01 ft^3/s (0.001 m^3/s) Sept. 21, 1974.

REMARKS.--Records good. No regulation. Part of domestic water supply for city of Hillsboro is diverted above station, at times taking a major portion of the flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	21	86	101	220	242	145	20	10	5.1	.78	.28
2	1.7	11	73	89	168	240	170	20	9.8	5.5	.72	.20
3	1.7	8.7	73	76	142	178	157	19	9.5	5.3	.83	.17
4	1.6	9.9	66	66	140	154	145	18	16	5.0	.78	.20
5	1.7	9.5	61	59	121	186	133	17	16	5.0	.62	.28
6	10	9.5	55	52	106	172	119	16	12	5.1	.53	.25
7	8.7	12	69	47	93	140	105	16	12	5.0	.57	.20
8	4.8	18	63	44	81	116	93	16	11	6.0	.83	.18
9	3.5	132	56	40	71	100	85	16	10	9.5	1.0	.28
10	3.0	79	50	38	63	94	72	16	9.5	7.5	.62	.34
11	2.6	104	53	37	57	90	73	16	8.7	6.2	.53	.25
12	2.6	98	128	40	53	103	65	15	8.2	5.5	.62	.18
13	2.8	117	148	68	49	119	60	14	7.7	5.1	.95	.17
14	2.8	124	159	121	60	135	54	20	8.0	4.6	1.4	.17
15	2.4	249	194	425	70	148	49	18	8.2	4.6	1.2	.17
16	2.4	209	215	516	130	143	45	19	7.7	5.0	.89	.17
17	2.2	121	192	308	122	127	42	21	6.8	8.2	.67	.17
18	2.2	84	147	292	148	109	39	18	6.6	6.8	.57	.17
19	2.2	65	127	242	172	94	36	16	6.4	5.7	.78	.14
20	2.6	90	151	182	142	80	34	15	6.4	4.6	1.0	.12
21	4.5	108	145	143	121	69	32	14	6.2	4.3	.89	.11
22	4.0	104	135	121	105	61	31	14	6.2	4.0	.67	.12
23	4.8	101	144	110	91	55	29	13	6.2	4.0	.62	.18
24	8.4	114	153	105	82	50	28	16	5.8	3.9	.67	.20
25	11	121	147	121	86	48	27	16	6.4	3.6	.49	.17
26	8.4	111	125	118	119	44	26	14	7.3	3.5	.34	.18
27	6.6	114	187	118	128	62	24	13	7.7	3.2	.28	.31
28	6.6	154	206	113	216	188	23	12	6.4	3.1	.25	.28
29	6.9	134	183	105	------	152	22	12	5.8	3.0	.31	.31
30	6.3	106	144	106	------	128	21	11	5.1	2.7	.25	.28
31	24	------	123	194	------	116	------	11	------	2.7	.31	------
TOTAL	154.7	2,738.6	3,858	4,197	3,156	3,743	1,984	492	253.6	153.3	20.97	6.23
MEAN	4.99	91.3	124	135	113	121	66.1	15.9	8.45	4.95	.68	.21
MAX	24	249	215	516	220	242	170	21	16	9.5	1.4	.34
MIN	1.6	8.7	50	37	49	44	21	11	5.1	2.7	.25	.11
CFSM	.48	8.86	12.0	13.1	11.0	11.7	6.42	1.54	.82	.48	.07	.02
IN.	.56	9.89	13.93	15.16	11.40	13.52	7.17	1.78	.92	.55	.08	.02
AC-FT	307	5,430	7,650	8,320	6,260	7,420	3,940	976	503	304	42	12

CAL YR 1973 TOTAL 11,831.58 MEAN 32.4 MAX 249 MIN .10 CFSM 3.15 IN 42.73 AC-FT 23,470
WTR YR 1974 TOTAL 20,757.40 MEAN 56.9 MAX 516 MIN .11 CFSM 5.52 IN 74.97 AC-FT 41,170

PEAK DISCHARGE (BASE, 340 CFS).--Jan. 16 (0800) 683 cfs (5.69 ft).

14203000 SCOGGINS CREEK NEAR GASTON, OREG.

LOCATION.--Lat 45°27'32", long 123°09'16", on line between secs. 26 and 27, T.1 S., R.4 W., Washington County, on left bank 100 ft (30 m) upstream from bridge on State Highway 47, 1.7 mi (2.7 km) northwest of Gaston, and at mile 1.71 (2.75 km).

DRAINAGE AREA.--43.3 mi² (112.1 km²).

PERIOD OF RECORD.--October 1940 to September 1974 (station discontinued). Prior to October 1973, published as Scoggin Creek near Gaston.

GAGE.--Water-stage recorder. Datum of gage is 168.92 ft (51.487 m) above mean sea level. Prior to Oct. 1, 1947, water-stage recorder at site 300 ft (91 m) upstream at same datum. Oct. 1, 1947, to June 7, 1950, nonrecording gage at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--34 years, 143 ft³/s (4.05 m³/s), 44.85 in/yr (1,139 mm/yr), 103,600 acre-ft/yr (128 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,750 ft³/s (77.9 m³/s) Jan. 16, gage height, 14.27 ft (4.349 m); minimum, 1.4 ft³/s (0.040 m³/s) Sept. 27.
Period of record: Maximum discharge, 5,320 ft³/s (151 m³/s) Dec. 21, 1955, gage height, 15.94 ft (4.859 m); minimum, 0.10 ft³/s (0.003 m³/s) Aug. 28, Sept. 30, Oct. 1, 3, 1958, Aug. 23, 24, 1961.

REMARKS.--Records good. Some diurnal fluctuation caused by logponds above station. Diversions by pumping for irrigation above station. Part of domestic water supply for Hillsboro is diverted from Sain Creek above station.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	104	358	375	791	782	500	104	17	15	8.4	9.5
2	8.4	64	271	243	608	835	610	99	17	13	11	9.9
3	8.0	44	264	233	461	611	566	94	16	18	11	9.9
4	8.0	54	242	212	459	442	490	89	17	20	12	9.5
5	7.8	56	227	197	380	548	435	86	17	19	12	9.1
6	25	49	216	180	293	540	353	81	16	17	11	8.4
7	44	42	259	165	266	419	304	83	14	16	11	8.4
8	19	64	242	155	242	308	269	81	16	13	7.8	8.4
9	15	443	225	145	223	262	255	77	18	13	7.5	6.1
10	12	466	210	139	212	251	235	79	17	12	5.0	4.0
11	11	505	216	138	195	257	235	77	17	17	5.2	18
12	10	486	412	148	188	304	223	68	16	24	4.8	18
13	11	541	774	275	179	404	210	60	16	24	4.6	15
14	12	626	814	606	204	431	199	74	16	24	3.5	8.0
15	11	1.140	1.020	1.940	210	479	188	74	16	23	2.3	13
16	10	1.410	1.130	2.560	423	472	179	74	15	25	3.8	13
17	9.9	668	1.070	1.390	405	423	170	77	15	26	3.8	12
18	9.5	389	742	1.190	470	318	164	70	13	23	4.3	10
19	9.5	277	573	924	611	268	161	70	13	20	3.3	8.4
20	11	320	768	655	490	244	151	54	15	21	1.8	6.1
21	16	400	745	443	377	225	145	4.5	15	21	4.0	1.6
22	16	380	625	345	310	212	139	3.0	13	21	4.1	3.8
23	17	370	580	330	268	201	132	2.7	15	16	4.0	3.5
24	25	410	677	279	244	188	126	3.6	11	15	4.0	1.5
25	36	480	692	300	251	182	123	9.9	15	16	4.6	2.1
26	20	450	545	299	334	173	120	11	15	15	4.3	1.8
27	20	500	802	304	365	193	117	12	17	15	3.3	1.4
28	19	860	1.080	300	712	643	112	13	18	15	1.9	1.7
29	20	760	891	280	------	589	107	15	19	15	2.9	1.9
30	18	500	669	286	------	474	99	14	18	11	4.6	1.8
31	44	------	512	569	------	375	------	13	------	9.9	5.9	------
TOTAL	517.1	12.968	17.951	15.775	10.159	12.098	7.117	1.670.7	473	552.9	177.7	225.8
MEAN	16.7	432	579	509	363	390	237	53.9	15.8	17.8	5.73	7.53
MAX	44	1.410	1.130	2.560	791	835	610	104	19	26	12	18
MIN	7.8	44	210	138	179	173	99	2.7	11	9.9	1.8	1.4
CFSM	.39	9.98	13.4	11.8	8.38	9.01	5.47	1.24	.36	.41	.13	.17
IN.	.44	11.14	15.42	13.55	8.73	10.39	6.11	1.44	.41	.48	.15	.19
AC-FT	1.030	25.720	35.610	31.290	20.150	24.000	14.120	3.310	938	1.100	352	448

CAL YR 1973 TOTAL 52.332.3 MEAN 143 MAX 1.410 MIN 1.3 CFSM 3.30 IN 44.96 AC-FT 103.800
WTR YR 1974 TOTAL 79.665.2 MEAN 218 MAX 2.560 MIN 1.4 CFSM 5.03 IN 68.46 AC-FT 158.100

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2330	12.36	1,830	12-28	0100	9.99	1,220
12-16	1900	10.18	1,260	1-16	1500	14.27	2,750

14203500 TUALATIN RIVER NEAR DILLEY, OREG.

LOCATION.--Lat 45°28'30", long 123°07'23", in NE¼NW¼ sec.24, T.1 S., R.4 W., Washington County, on left bank 5 ft (2 m) upstream from highway bridge, 1.0 mi (1.6 km) south of Dilley, 1.2 mi (1.9 km) downstream from Scoggins Creek, and at mile 58.81 (94.63 km).

DRAINAGE AREA.--125 mi² (324 km²).

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1940 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 147.57 ft (44.979 m) above mean sea level. Prior to June 16, 1950, nonrecording gage at several sites within 200 ft (61 m) of present site at datum 4.00 ft (1.219 m) higher. June 16, 1950, to Aug. 10, 1966, water-stage recorder at present site at datum 4.00 ft (1.219 m) higher.

AVERAGE DISCHARGE.--35 years, 415 ft³/s (11.75 m³/s), 45.09 in/yr (1,145 mm/yr), 300,700 acre-ft/yr (371 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,300 ft³/s (326 m³/s) Jan. 16, gage height, 18.53 ft (5.648 m); minimum, 9.3 ft³/s (0.263 m³/s) Sept. 25.

Period of record: Maximum discharge, 17,100 ft³/s (484 m³/s) Dec. 22, 1964, gage height, 19.34 ft (5.895 m), from rating curve extended above 6,000 ft³/s (170 m³/s); minimum, 0.08 ft³/s (0.002 m³/s) Sept. 3, 1967.

REMARKS.--Records good. Diurnal fluctuation caused by operation of millpond on Scoggins Creek above station. Diversions above station of approximately 3,000 acre-ft (3.70 hm³) from J. W. Barney Reservoir on the Middle Fork of North Fork Trask River for municipal water supply and irrigation in Wapato Lake area.

REVISIONS.--WSP 1935: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	330	1,480	1,440	2,520	2,420	1,520	198	96	37	13	46
2	36	152	1,230	1,210	2,420	2,710	1,840	204	96	29	23	44
3	36	99	1,130	946	1,730	1,920	1,800	197	95	40	30	42
4	36	101	1,030	779	1,530	1,490	1,520	187	114	39	35	43
5	37	99	887	640	1,450	1,600	1,450	172	123	44	38	44
6	55	85	763	531	1,280	1,820	1,340	163	113	37	42	43
7	106	100	907	487	1,100	1,420	1,220	159	108	39	42	42
8	65	100	1,000	429	913	1,220	1,060	154	101	37	40	41
9	54	1,040	853	400	772	1,020	960	145	101	61	39	47
10	48	1,740	720	402	691	906	833	156	95	61	41	42
11	43	1,650	676	952	610	966	780	156	89	47	41	51
12	40	1,940	1,070	1,770	566	1,040	744	156	85	53	43	53
13	43	2,420	2,790	5,800	544	1,320	646	148	80	53	42	50
14	45	2,620	3,420	9,880	645	1,360	562	163	79	50	45	45
15	43	3,990	3,880	10,800	781	1,450	504	187	82	44	42	44
16	41	5,750	4,190	11,000	1,310	1,490	456	204	81	39	41	46
17	41	3,420	4,270	6,000	1,360	1,470	418	195	76	50	42	43
18	40	1,980	3,320	3,880	1,550	1,310	384	179	61	61	43	40
19	40	1,280	2,330	3,540	1,960	1,120	361	176	53	49	45	38
20	39	1,340	2,810	2,550	1,550	956	339	164	48	45	43	33
21	47	1,940	3,130	1,780	1,360	820	318	125	48	40	45	23
22	48	1,960	2,550	1,440	1,250	712	301	113	47	37	45	21
23	49	1,530	2,620	1,290	1,080	624	291	108	53	30	46	23
24	62	1,920	2,450	1,150	942	550	277	110	40	24	46	18
25	91	1,980	2,870	1,080	914	515	264	121	37	27	45	10
26	82	1,980	2,130	1,200	1,140	498	259	118	47	25	44	11
27	69	1,750	2,550	1,150	1,250	533	247	113	54	24	43	11
28	64	2,900	3,800	1,210	2,050	1,480	233	109	53	30	41	10
29	68	3,070	3,450	1,170	------	1,940	221	106	50	30	37	12
30	62	2,110	2,760	1,130	------	1,580	212	102	47	21	39	13
31	151	------	2,000	1,370	------	1,410	------	100	------	18	41	------
TOTAL	1,719	51,276	69,066	77,406	35,268	39,670	21,360	4,688	2,252	1,221	1,242	1,029
MEAN	55.5	1,709	2,228	2,497	1,260	1,280	712	151	75.1	39.4	40.1	34.3
MAX	151	5,750	4,270	11,000	2,520	2,710	1,840	204	123	61	46	53
MIN	36	85	676	400	544	498	212	100	37	18	13	10
CFSM	.44	13.7	17.8	20.0	10.1	10.2	5.70	1.21	.60	.32	.32	.27
IN.	.51	15.26	20.55	23.04	10.50	11.81	6.36	1.40	.67	.36	.37	.31
AC-FT	3,410	101,700	137,000	153,500	69,950	78,690	42,370	9,300	4,470	2,420	2,460	2,040

CAL YR 1973 TOTAL 182,469.5 MEAN 500 MAX 5,750 MIN 3.8 CFSM 4.00 IN 54.30 AC-FT 361,900
WTR YR 1974 TOTAL 306,197.0 MEAN 839 MAX 11,000 MIN 10 CFSM 6.71 IN 91.12 AC-FT 607,300

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0600	17.78	6,300	1-16	1630	18.53	11.500
12-17	0230	17.40	4,500				

14204500 GALES CREEK NEAR FOREST GROVE, OREG.

LOCATION.--Lat 45°33'20", long 123°11'10", in SE¼ sec.21, T.1 N., R.4 W., Washington County, on left bank 50 ft (15 m) downstream from Roderick road bridge, 0.1 mi (0.2 km) below Kelly Creek, 2.5 mi (4.0 km) southeast of town of Gales Creek, 4.5 mi (7.2 km) northwest of Forest Grove, and at mile 8.7 (14.0 km).

DRAINAGE AREA.--66.1 mi² (171.2 km²).

PERIOD OF RECORD.--October 1940 to September 1956, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 201.81 ft (61.512 m) above mean sea level. Prior to Sept. 13, 1941, at site 1.4 mi (2.3 km) downstream at datum 14.33 ft (4.368 m) lower. Sept. 13, 1941, to June 19, 1952, at downstream side of bridge at datum 1.44 ft (0.439 m) higher. June 20, 1952, to Jan. 3, 1956, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--20 years, 240 ft³/s (6.80 m³/s), 49.31 in/yr (1,252 mm/yr), 173,900 acre-ft/yr (214 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft³/s (163 m³/s) Jan. 15, gage height, 11.9 ft (3.63 m), from floodmark profile, minimum, 2.3 ft³/s (0.065 m³/s) Sept. 8.

Period of record: Maximum discharge, 6,410 ft³/s (182 m³/s) Feb. 17, 1949, gage height, 10.90 ft (3.322 m), from floodmark, site and datum then in use; maximum gage height, 12.95 ft (3.947 m), from floodmark, Jan. 21, 1972; minimum discharge, 1 ft³/s (0.028 m³/s) Aug. 19, 1947.

REMARKS.--Records good. No regulation. Small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	124	610	637	1.420	1.400	892	121	62	25	9.0	7.2
2	15	88	496	535	1.090	1.380	1.200	116	64	27	6.0	7.2
3	15	68	496	451	876	1.000	1.080	113	61	26	9.0	6.6
4	14	85	448	385	792	812	912	110	80	25	9.0	9.0
5	14	82	403	335	694	876	776	103	79	27	7.8	7.8
6	52	89	368	290	604	836	661	104	67	23	9.6	9.0
7	71	110	472	263	535	698	601	98	67	25	11	7.8
8	38	128	433	237	472	580	541	91	61	27	9.6	5.6
9	29	1.000	385	219	415	523	496	97	56	46	8.4	9.0
10	24	625	350	203	375	493	415	95	53	40	7.2	12
11	24	816	388	185	345	490	398	100	49	33	9.0	10
12	22	748	776	250	325	580	365	88	47	29	14	8.4
13	24	952	1.220	838	302	674	338	91	45	29	12	7.8
14	23	1.110	1.340	2.200	395	670	310	118	43	24	15	8.4
15	22	1.940	1.640	5.000	436	712	280	112	46	25	11	6.0
16	20	1.780	1.920	4.800	784	712	261	112	43	25	11	6.6
17	19	968	1.690	2.540	736	658	245	107	39	42	9.6	6.3
18	18	640	1.160	2.150	784	571	225	101	35	36	13	5.8
19	18	472	936	1.820	892	493	213	98	37	31	17	5.7
20	22	674	1.280	1.300	776	427	203	97	32	26	18	5.6
21	25	792	1.220	968	661	370	183	91	29	20	14	5.4
22	25	716	984	764	589	333	175	86	27	16	13	5.1
23	28	677	1.010	634	508	300	169	85	26	17	13	5.0
24	42	712	1.070	556	457	273	161	88	27	15	13	4.8
25	56	856	1.100	577	469	263	152	82	33	14	13	4.7
26	43	798	940	598	637	249	154	76	38	13	11	5.0
27	37	776	1.470	637	694	305	143	76	39	13	9.0	5.4
28	36	1.190	1.700	643	1.240	888	137	74	35	10	8.4	5.5
29	32	1.050	1.400	604	------	828	130	73	28	9.6	11	5.5
30	30	776	1.040	598	------	726	125	70	25	9.0	7.8	5.5
31	79	------	820	1.080	------	640	------	68	------	7.8	7.8	------
TOTAL	934	20.832	29.565	32.289	18.303	19.760	11.941	2.941	1.373	735.4	337.2	203.7
MEAN	30.1	694	954	1.042	654	637	398	94.9	45.8	23.7	10.9	6.79
MAX	79	1.940	1.920	5.000	1.420	1.400	1.200	121	80	46	18	12
MIN	14	68	350	185	302	249	125	68	25	7.8	6.0	4.7
CFSM	.46	10.5	14.4	15.8	9.89	9.64	6.02	1.44	.69	.36	.16	.10
IN.	.53	11.72	16.64	18.17	10.30	11.12	6.72	1.66	.77	.41	.19	.11
AC-FT	1.850	41.320	58.640	64.050	36.300	39.190	23.680	5.830	2.720	1.460	669	404

CAL YR 1973 TOTAL 82.879.2 MEAN 227 MAX 1.940 MIN 4.3 CFSM 3.43 IN 46.64 AC-FT 164.400
WTR YR 1974 TOTAL 139.214.3 MEAN 381 MAX 5.000 MIN 4.7 CFSM 5.76 IN 78.35 AC-FT 276.100

PEAK DISCHARGE (BASE, 1,100 CFS)

NOTE.--No gage-height record Jan. 12-16.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1130	5.55	1,210	12-27	2000	7.15	2,000
11-15	1930	8.16	2,610	1-15	-	11.9	5,740
11-28	1230	5.91	1,390	2- 1	0230	6.04	1,520
12-16	1530	7.32	2,090	3- 1	2030	5.79	1,400
12-20	1600	6.29	1,570	4- 2	2000	5.63	1,320
12-24	1730	6.02	1,440				

14205800 DAIRY CREEK NEAR VERBOORT, OREG.

LOCATION.--Lat 45°33'20", long 123°03'40", in NW¼SE¼ sec.21, T.1 N., R.3 W., Washington County, near left bank on downstream side of highway bridge, 1.1 mi (1.8 km) east of Verboort, and at mile 8.3 (13.4 km).

DRAINAGE AREA.--147 mi^2 (381 km^2).

PERIOD OF RECORD.--October 1972 to current year (October, May to September only, each year).

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m), from topographic map.

EXTREMES.--Current year: Maximum daily discharge, 200 ft^3/s (5.66 m^3/s) May 1; maximum gage height recorded, 4.84 ft (1.475 m) May 15; minimum discharge recorded, 2.6 ft^3/s (0.074 m^3/s) Aug. 30.
Period of record: Maximum daily discharge, 200 ft^3/s (5.66 m^3/s) May 1, 1974; maximum gage height recorded, 4.84 ft (1.475 m) May 15, 1974; minimum discharge recorded, 0.20 ft^3/s (0.006 m^3/s) Aug. 1, 1973.

REMARKS.--Records fair. No regulation. Numerous diversions for irrigation and log ponds upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13							200	77	27	9.6	7.3
2	12							190	78	26	9.8	8.8
3	12							185	79	24	9.6	6.5
4	13							180	77	20	9.8	6.1
5	13							170	92	23	13	7.7
6	15							165	82	23	12	5.0
7	73							157	78	23	9.6	4.8
8	51							149	74	23	6.9	4.6
9	30							141	69	40	9.3	6.3
10	23							141	67	60	10	7.7
11	18							141	59	45	16	7.3
12	19							138	52	42	16	5.3
13	20							128	42	38	16	4.8
14	24							138	46	37	16	6.5
15	23							162	50	30	15	6.5
16	20							146	49	31	14	7.7
17	20							143	40	35	10	6.9
18	19							138	43	45	11	5.5
19	19							133	37	41	14	8.4
20	19							131	34	33	17	9.3
21	21							126	30	29	19	9.6
22	40							118	29	25	18	9.6
23	58							113	30	20	19	10
24	82							119	30	16	18	7.9
25	98							126	26	17	19	8.2
26	90							117	31	15	19	6.9
27	76							108	40	10	14	7.9
28	66							100	39	11	9.3	8.2
29	58				------			93	33	13	6.3	8.6
30	54				------			90	29	10	5.5	9.3
31	58	------			------		------	79	------	9.3	7.7	------
TOTAL	1,157							4,265	1,542	841.3	397.4	219.2
MEAN	37.3							138	51.4	27.1	12.8	7.31
MAX	98							200	92	60	19	10
MIN	12							79	26	9.3	5.5	4.6
AC-FT	2,290							8,460	3,060	1,670	788	435

14206180 MCKAY CREEK NEAR HILLSBORO, OREG.

LOCATION.--Lat 45°32'25", long 123°00'11", in SE¼SW¼ sec.25, T.1 S., R.3 W., Washington County, on center upstream bridge pier of bridge on Hornecker Road, 1.5 mi (2.4 km) northwest of county courthouse in Hillsboro, and at mile 2.4 (3.9 km).

DRAINAGE AREA.--61.0 mi² (158.0 km²).

PERIOD OF RECORD.--October 1972 to current year (October, May to September only, each year).

GAGE.--Water-stage recorder. Datum of gage is 126.53 ft (38.566 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 41 ft³/s (1.16 m³/s) May 1, 15; maximum gage height recorded, 3.34 ft (1.018 m) May 15; minimum discharge, 0.30 ft³/s (0.008 m³/s) Aug. 12, 13.

Period of record: Maximum discharge, 41 ft³/s (1.16 m³/s) May 1, 15, 1974; maximum gage height recorded, 3.34 ft (1.018 m) May 15, 1974; minimum discharge, 0.17 ft³/s (0.005 m³/s) Aug. 10, 11, 1973.

REMARKS.--Records good. No regulation. Many small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0							41	19	6.4	.77	.82
2	3.0							38	17	4.6	.96	.61
3	2.9							38	17	3.6	1.0	.43
4	2.8							36	17	3.5	1.1	.52
5	2.8							34	21	4.8	.65	.47
6	4.2							33	21	5.0	.69	.47
7	12							32	18	5.1	.69	.67
8	16							30	16	6.1	.52	.72
9	11							28	15	11	.47	.82
10	5.6							28	14	19	.65	.83
11	9.2							29	12	14	.56	.85
12	7.2							28	12	11	.36	1.0
13	4.2							25	11	12	.33	1.2
14	4.4							27	10	9.9	.[illegible]3	1.1
15	7.6							38	9.9	7.3	1.4	1.0
16	6.4							32	11	6.9	2.2	.95
17	5.2							31	9.5	7.5	1.7	.93
18	4.8							29	8.3	11	2.0	.84
19	4.6							29	7.5	14	2.5	.74
20	5.2							28	8.3	11	1.8	.76
21	6.6							27	7.8	8.7	1.1	.76
22	11							25	7.3	7.5	2.4	.77
23	17							24	7.8	5.1	2.0	.75
24	20							27	7.3	5.1	1.5	.68
25	23							36	5.2	3.8	2.3	.68
26	23							33	5.8	3.1	2.4	.75
27	19							29	9.4	3.2	2.1	.83
28	16							26	9.4	1.4	1.5	.93
29	15				------			23	8.5	1.8	1.2	1.1
30	16				------			22	8.5	1.6	1.0	1.2
31	16	------			------		------	20	------	.69	.90	------
TOTAL	304.7							926	351.5	215.69	39.18	24.18
MEAN	9.83							29.9	11.7	6.96	1.26	.81
MAX	23							41	21	19	2.5	1.2
MIN	2.8							20	5.2	.69	.33	.43
AC-FT	604							1,840	697	428	78	48

14206500 TUALATIN RIVER AT FARMINGTON, OREG.

LOCATION.--Lat 45°26'50", long 122°56'58", in SE¼SE¼ sec.29, T.1 S., R.2 W., Washington County, on left bank at Harris bridge at Farmington, 5.0 mi (8.0 km) south of Hillsboro, and at mile 33.3 (53.6 km).

DRAINAGE AREA.--568 mi² (1,471 km²).

PERIOD OF RECORD.--October 1939 to September 1958. October 1972 to current year (October, May to September only, each year).

GAGE.--Water-stage recorder. Datum of gage is 100.42 ft (30.608 m) above mean sea level. Prior to Oct. 1, 1940, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Oct. 1, 1940, to Sept. 30, 1958, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--19 years (1939-58), 1,355 ft³/s (38.4 m³/s), 981,000 acre-ft/yr (1.21 km³/yr).

EXTREMES.--Current year: Maximum discharge recorded, 762 ft³/s (21.6 m³/s) May 1; minimum recorded, 25 ft³/s (0.708 m³/s) Aug. 3.
Period of record: Maximum discharge during period October 1939 to September 1958, 24,200 ft³/s (685 m³/s) Dec. 22, 1955, gage height, 36.03 ft (10.982 m), from floodmark; no flow Aug. 4-7, Aug. 10 to Sept. 6, 1958.
Maximum stage since 1932, about 37 ft (11.3 m) Dec. 22 or 23, 1933.

REMARKS.--Records good. Regulation due to log ponds and many small diversions by pumping for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88							757	337	136	35	57
2	85							723	321	117	30	62
3	82							704	312	101	27	65
4	77							675	316	98	35	67
5	79							644	349	103	41	66
6	102							614	401	102	50	72
7	196							591	366	102	54	74
8	352							575	340	106	54	72
9	256							549	316	167	54	73
10	196							534	299	277	53	89
11	161							545	284	264	54	89
12	143							549	260	212	56	95
13	133							526	234	198	63	101
14	134							508	208	181	66	93
15	142							584	203	167	72	84
16	138							632	210	151	70	77
17	129							628	208	162	68	82
18	118							607	187	208	67	79
19	120							579	169	234	72	71
20	120							572	157	210	81	66
21	134							543	147	180	86	63
22	185							476	139	154	89	56
23	211							439	127	127	89	50
24	226							435	132	101	85	51
25	259							480	121	80	84	49
26	339							487	120	71	80	39
27	289							450	154	62	81	34
28	274							420	185	53	70	37
29	245				------			395	171	50	60	39
30	244				------			374	151	54	59	39
31	235	------			------		------	359	------	46	55	------
TOTAL	5,492							16,954	6,924	4,274	1,940	1,991
MEAN	177							547	231	138	62.6	66.4
MAX	352							757	401	277	89	101
MIN	77							359	120	46	27	34
AC-FT	10,890							33,630	13,730	8,480	3,850	3,950

14207000 OSWEGO CANAL NEAR LAKE OSWEGO, OREG.

LOCATION.--Lat 45°23'20", long 122°43'10", in NW¼NW¼ sec.20, T.2 S., R. 1 E., Clackamas County, on left bank 0.4 mi (0.6 km) downstream from point of diversion on Tualatin River, 1.0 mi (1.6 km) upstream from Oswego Lake, and 3.5 mi (5.6 km) southwest of Oswego.

PERIOD OF RECORD.--October 1928 to current year. October 1951 to September 1970, Oswego Canal records were not published separately, but were combined with records for Tualatin River at West Linn.

GAGE.--Water-stage recorder. Datum of gage is 96.50 ft (29.413 m) above mean sea level. Prior to Nov. 15, 1928, nonrecording gage 800 ft (244 m) upstream at different datum. Nov. 15, 1928, to June 29, 1939, nonrecording gage 900 ft (274 m) downstream at datum about 1.0 ft (0.3 m) higher.

AVERAGE DISCHARGE.--46 years, 71.1 ft^3/s (2.01 m^3/s), 51,510 acre-ft/yr (63.5 hm^3/yr).

EXTREMES.--Period of record: Maximum daily discharge, 6,000 ft^3/s (170 m^3/s) Dec. 23, 1933; no flow at times.

REMARKS.--Records good. Oswego Canal diverts water from Tualatin River in NW¼ sec.20, but diversion dam is in NE¼ sec.33, about 3 mi (5 km) downstream. Water used for recreational facilities and development of power below Oswego Lake and returned to Willamette River at that point.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	38	124	190	9.7	154	150	57	63	43	34	52
2	27	48	122	99	9.0	159	152	45	61	41	32	51
3	27	54	121	7.3	8.7	162	153	30	60	39	35	50
4	26	52	118	7.0	8.7	167	154	30	60	38	30	48
5	27	51	114	6.7	8.2	173	156	29	61	38	27	54
6	28	52	110	6.4	8.1	173	157	29	64	37	21	58
7	30	53	109	6.1	7.9	170	156	41	66	38	20	60
8	36	53	106	5.9	7.8	166	153	44	33	39	21	61
9	43	72	101	5.6	7.6	161	151	37	8.8	49	21	62
10	40	97	105	5.3	7.5	157	145	48	25	56	23	60
11	35	117	107	5.0	7.5	152	139	48	59	59	29	53
12	32	128	108	5.3	58	148	132	40	57	57	31	51
13	32	137	122	6.5	104	146	126	37	54	54	32	51
14	31	150	129	7.3	102	146	118	47	52	51	33	50
15	31	174	132	19	97	150	111	48	50	49	34	48
16	32	187	149	18	104	150	101	54	49	48	31	49
17	32	158	159	216	112	149	92	60	49	51	32	49
18	31	148	170	969	121	148	88	59	48	57	30	50
19	29	163	192	946	132	146	83	59	46	68	30	51
20	28	152	205	310	135	143	79	58	43	72	31	51
21	31	146	210	32	138	138	75	57	41	68	28	50
22	33	142	206	9.8	141	131	72	54	39	64	23	49
23	35	137	200	9.3	142	124	70	51	39	59	25	47
24	37	133	195	9.0	140	116	67	60	38	54	41	46
25	37	131	190	8.8	138	106	66	73	45	49	47	47
26	39	128	184	8.5	137	97	65	75	51	45	51	47
27	42	126	187	8.5	137	92	64	74	56	44	53	46
28	41	126	187	8.4	150	110	58	71	57	41	54	45
29	38	125	188	8.4	------	125	31	68	47	39	54	44
30	36	124	190	8.7	------	138	37	66	44	38	53	44
31	36	------	193	10	------	144	------	64	------	37	53	------
TOTAL	1,029	3,422	4,733	2,962.8	2,183.7	4,441	3,201	1,613	1,469.8	1,522	1,059	1,524
MEAN	33.2	114	153	95.6	78.0	143	107	52.0	49.0	49.1	34.2	50.8
MAX	43	187	210	969	150	173	157	75	66	72	54	62
MIN	26	38	101	5.0	7.5	92	31	29	8.8	37	20	44
AC-FT	2,040	6,790	9,390	5,880	4,330	8,810	6,350	3,200	2,920	3,020	2,100	3,020

CAL YR 1973 TOTAL 22,071.2 MEAN 60.5 MAX 210 MIN 3.0 AC-FT 43,780
WTR YR 1974 TOTAL 29,160.3 MEAN 79.9 MAX 969 MIN 5.0 AC-FT 57,840

14207500 TUALATIN RIVER AT WEST LINN, OREG.

LOCATION.--Lat 45°21'03", long 122°40'30", in SW¼ sec.34, T.2 S., T.1 E., Clackamas County, on left bank 300 ft (90 m) upstream from bridge on State Highway 212, 0.4 mi (0.6 km) west of West Linn city limits, and at mile 1.8 (2.9 km).

DRAINAGE AREA.--706 mi^2 (1,829 km^2).

PERIOD OF RECORD.--July 1928 to current year. Prior to October 1960, published as "near Willamette."

GAGE.--Water-stage recorder. Datum of gage is 85.61 ft (26.094 m) above mean sea level (levels by Corps of Engineers). Prior to June 12, 1941, nonrecording gage at datum 1.02 ft (0.311 m) higher.

AVERAGE DISCHARGE.--46 years, 1,551 ft^3/s (43.92 m^3/s), 29.83 in/yr (758 mm/yr), 1,124,000 acre-ft/yr (1.39 km^3/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 22,300 ft^3/s (632 m^3/s) Jan. 18, gage height, 16.31 ft (4.971 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 3.

Period of record: Maximum discharge, 23,300 ft^3/s (660 m^3/s) Dec. 23, 1933, gage height, 17.72 ft (5.401 m); minimum daily, 0.20 ft^3/s (0.006 m^3/s) July 30 to Aug. 2, 1966.

REMARKS.--Records good. October 1951 to September 1970, all records published for this station included the daily flow of Oswego Canal. Oswego Canal diverts at point 5.0 mi (8.0 km) above station for development of power between outlet of Lake Oswego and Willamette River. Some regulation in low-water season by flashboards on crest of diversion dam for Oswego Canal. Several diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1014: 1943. WSP 1184: 1947: WSP 1248: 1941. WSP 1935: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	203	6,090	8,780	5,520	5,300	4,940	837	348	134	50	41
2	96	331	6,030	8,290	5,360	5,550	5,120	803	324	120	37	39
3	89	460	5,890	7,650	5,490	5,870	5,210	786	311	111	16	38
4	87	422	5,580	6,910	5,810	6,220	5,300	759	311	101	42	28
5	86	400	5,170	6,140	5,890	6,620	5,440	727	328	99	44	32
6	105	427	4,770	5,350	5,810	6,680	5,490	690	352	95	52	36
7	151	445	4,560	4,590	5,580	6,450	5,410	649	366	93	49	39
8	206	431	4,370	3,860	5,250	6,150	5,220	622	366	98	51	39
9	263	1,070	4,020	3,170	4,830	5,840	5,050	606	374	155	52	40
10	216	2,420	3,690	2,490	4,380	5,490	4,730	580	338	227	43	65
11	170	3,310	3,420	1,990	3,940	5,170	4,370	580	288	247	41	87
12	145	3,880	3,440	1,780	3,420	4,880	3,980	590	273	232	46	80
13	135	4,330	4,310	2,490	2,910	4,770	3,580	585	250	203	50	77
14	130	4,950	5,000	3,480	2,580	4,760	3,190	560	227	176	52	77
15	124	6,020	5,280	6,700	2,360	5,010	2,800	580	205	153	59	73
16	124	7,900	6,210	8,730	2,650	5,020	2,390	654	200	140	66	61
17	121	7,700	7,110	14,500	3,040	5,010	2,040	695	200	151	64	60
18	117	8,730	7,780	21,400	3,490	4,940	1,810	680	195	144	65	58
19	112	9,170	8,760	20,400	4,100	4,840	1,640	665	176	134	66	55
20	112	8,880	9,700	17,900	4,280	4,650	1,500	649	161	153	70	51
21	143	8,320	10,300	14,800	4,460	4,360	1,390	617	148	161	92	50
22	159	7,860	10,100	12,100	4,620	4,010	1,300	560	136	151	87	50
23	166	7,330	9,610	10,300	4,660	3,590	1,210	498	130	126	71	47
24	191	6,970	9,050	8,800	4,580	3,140	1,160	421	113	106	39	43
25	201	6,720	8,680	7,700	4,490	2,690	1,110	471	84	90	44	40
26	221	6,460	8,210	6,800	4,440	2,280	1,070	494	95	74	42	39
27	254	6,240	8,220	6,140	4,380	2,060	1,040	480	104	65	36	37
28	246	6,210	8,320	5,610	5,010	2,730	1,010	441	161	58	37	35
29	219	5,930	8,370	5,220	------	3,560	972	409	185	51	37	31
30	196	6,100	8,680	5,000	------	4,250	909	381	153	50	40	29
31	196	------	8,930	5,240	------	4,620	------	363	------	48	43	------
TOTAL	4,887	139,619	209,650	244,310	123,330	146,510	90,381	18,432	6,902	3,946	1,583	1,477
MEAN	158	4,654	6,763	7,881	4,405	4,726	3,013	595	230	127	51.1	49.2
MAX	263	9,170	10,300	21,400	5,890	6,680	5,490	837	374	247	92	87
MIN	86	203	3,420	1,780	2,360	2,060	909	363	84	48	16	28
AC-FT	9,690	276,900	415,800	484,600	244,600	290,600	179,300	36,560	13,690	7,830	3,140	2,930
MEAN†	191	4,768	6,915	7,977	4,482	4,869	3,120	647	279	176	85.2	100
CFSM†	.27	6.75	9.79	11.3	6.35	6.90	4.42	.92	.40	.25	.12	.14
IN.†	.31	7.54	11.30	13.03	6.61	7.95	4.93	1.06	.44	.29	.14	.16
AC-FT†	11,730	283,690	425,190	490,480	248,930	299,410	185,650	39,760	16,610	10,850	5,240	5,950

CAL YR 1973 TOTAL 590,594.3 MEAN 1,618 MAX 10,300 MIN 3.5 AC-FT 1,171,000 MEAN† 1,678 CFSM† 2.38 IN.† 32.27 AC-FT† 1,214,780

WTR YR 1974 TOTAL 991,027.0 MEAN 2,715 MAX 21,400 MIN 16 AC-FT 1,966,000 MEAN† 2,795 CFSM† 3.96 IN.† 53.76 AC-FT† 2,023,840

† Adjusted for diversion of Oswego Canal.

14208600 TIMOTHY LAKE NEAR GOVERNMENT CAMP, OREG.

LOCATION.--Lat 45°06'50", long 121°48'35", in NE¼ sec.27, T.5 S., R.8 E., Clackamas County, Mount Hood National Forest, in intake structure 350 ft (107 m) upstream from dam on Oak Grove Fork, 0.4 mi (0.6 km) upstream from Anvil Creek, 14 mi (22.5 km) south of Government Camp, and at mile 15.8 (25.4 km).

DRAINAGE AREA.--53.8 mi^2 (139.3 km^2).

PERIOD OF RECORD.--May 1956 to current year. Prior to October 1957, published as Timothy Meadows Reservoir.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Portland General Electric Co.).

EXTREMES.--Current year: Maximum contents observed, 68,370 acre-ft (84.3 hm^3) many days in August and September, elevation, 3,191.9 ft (972.89 m); minimum observed, 50,690 acre-ft (62.5 hm^3) Mar. 28, elevation, 3,178.4 ft (968.78 m).

Period of record: Maximum contents observed, 68,800 acre-ft (84.8 hm^3) Oct. 3, 1967, elevation, 3,192.2 ft (972.98 m); minimum observed, 16,010 acre-ft (19.7 hm^3) Feb. 24, 1957, elevation, 3,144.5 ft (958.44 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway built by Portland General Electric Co. Usable storage began May 28, 1956. Capacity, 65,710 acre-ft (81.0 hm^3) at elevation 3,190 ft (972.3 m), normal maximum operating level. Usable capacity increased in 1966 water year to 64,450 acre-ft (79.5 hm^3) between elevations 3,125.0 ft (952.50 m), invert of outlet pipe, and 3,192.0 ft (972.92 m), top of radial gates. Storage of 4,060 acre-ft (5.0 hm^3) below elevation 3,125.0 ft (952.50 m) not normally available for release. Water is used for power generation. Figures given herein represent total contents.

COOPERATION.--Elevations and capacity table furnished by Portland General Electric Co.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	3,191.0	67,100	-
Oct. 31	3,185.5	59,690	-7,410
Nov. 30	3,185.6	59,820	+130
Dec. 31	3,190.0	65,710	+5,890
CAL YR 1973	-	-	+7,980
Jan. 31	3,189.5	65,020	-690
Feb. 28	3,186.2	60,600	-4,420
Mar. 31	3,179.5	52,050	-8,550
Apr. 30	3,183.4	56,960	+4,910
May 31	3,188.4	63,530	+6,570
June 30	3,190.2	65,990	+2,460
July 31	3,191.6	67,950	+1,960
Aug. 31	3,191.9	68,370	+420
Sept.30	3,191.2	67,380	-990
WTR YR 1974	-	-	+280

14208700 OAK GROVE FORK NEAR GOVERNMENT CAMP, OREG.

LOCATION.--Lat 45°06'50", long 121°48'50", in NE¼ sec.27, T.5 S., R.8 E., Clackamas County, Mount Hood National Forest, on right bank 0.1 mi (0.2 km) upstream from Anvil Creek, 0.3 mi (0.5 km) downstream from Timothy Lake, 14 mi (23 km) south of Government Camp, and at mile 15.5 (24.9 km).

DRAINAGE AREA.--54.4 mi^2 (140.9 km^2).

PERIOD OF RECORD.--July 1956 to current year.

GAGE.--Water-stage recorder and artificial control. Datum of gage is 3,041.83 ft (927.150 m) above mean sea level (Portland General Electric Co. bench mark).

AVERAGE DISCHARGE.--18 years, 130 ft^3/s (3.68 m^3/s), 32.45 in/yr (824 mm/yr), 94,180 acre-ft/yr (116 hm^3/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Jan. 16, gage height, 3.72 ft (1.134 m); minimum, 47 ft^3/s (1.33 m^3/s) Nov. 8-12, 17-19.

Period of record: Maximum discharge, 2,110 ft^3/s (59.8 m^3/s) Dec. 24, 1964, gage height, 3.93 ft (1.198 m), from rating curve extended above 290 ft^3/s (8.21 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.7 ft^3/s (0.10 m^3/s) Sept. 23, 1968.

REMARKS.--Records good. Regulation by Timothy Lake (see station 14208600). No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	138	50	189	320	307	80	159	342	89	112	112
2	89	273	50	172	243	338	78	217	315	100	112	107
3	89	303	49	189	239	333	80	274	294	141	112	107
4	100	281	105	257	243	329	84	298	286	128	112	110
5	105	317	186	317	254	270	136	307	290	133	112	112
6	100	277	115	317	266	235	141	197	356	150	112	120
7	100	312	53	317	286	320	141	159	441	156	117	120
8	100	200	51	317	286	338	232	165	380	165	122	114
9	100	47	50	317	286	338	239	274	315	162	128	112
10	128	47	50	321	298	329	239	380	311	177	130	112
11	145	47	83	326	298	361	194	410	311	181	120	112
12	148	49	81	326	298	385	110	405	311	194	110	114
13	145	49	68	135	298	385	254	400	333	204	112	110
14	145	51	95	57	298	385	410	400	361	204	112	110
15	160	66	54	178	298	385	446	395	380	181	112	110
16	182	50	51	809	298	380	405	333	380	150	122	112
17	207	49	54	884	298	232	380	210	380	168	128	110
18	235	47	51	658	286	130	380	181	352	177	128	107
19	238	103	51	620	171	171	286	181	333	171	128	107
20	238	108	53	457	107	294	184	181	311	159	128	107
21	238	133	56	436	89	371	187	181	311	159	114	107
22	238	169	54	400	221	380	165	181	302	150	117	107
23	235	172	53	366	286	380	147	184	282	133	120	174
24	235	186	224	278	286	375	150	184	250	133	120	204
25	235	214	390	329	282	371	150	184	243	125	122	200
26	235	210	249	347	282	371	147	232	254	125	128	200
27	235	210	360	315	286	329	147	361	250	122	125	190
28	224	66	303	270	250	159	156	366	194	110	125	112
29	235	73	350	207	------	98	156	366	82	130	122	112
30	235	50	214	235	------	78	156	356	86	112	120	194
31	175	------	210	302	------	78	------	342	------	110	112	------
TOTAL	5,363	4,297	3,863	10,648	7,353	9,235	6,060	8,463	9,036	4,599	3,694	3,825
MEAN	173	143	125	343	263	298	202	273	301	148	119	128
MAX	238	317	390	884	320	385	446	410	441	204	130	204
MIN	89	47	49	57	89	78	78	159	82	89	110	107
AC-FT	10,640	8,520	7,660	21,120	14,580	18,320	12,020	16,790	17,920	9,120	7,330	7,590
MEAN†	52.5	145	220	332	183	159	284	380	342	180	126	111
CFSM†	.97	2.67	4.04	6.10	3.36	2.92	5.22	6.99	6.29	3.31	2.32	2.04
IN.†	1.11	2.98	4.67	7.04	3.50	3.37	5.83	8.05	7.02	3.82	2.67	2.27
AC-FT†	3,230	8,650	13,550	20,430	10,160	9,770	16,930	23,360	20,380	11,080	7,750	6,600

CAL YR 1973 TOTAL 35,476 MEAN 97.2 MAX 400 MIN 32 AC-FT 70,370 MEAN† 108 CFSM† 1.99 IN.† 27.01 AC-FT† 78,350
WTR YR 1974 TOTAL 76,436 MEAN 209 MAX 884 MIN 47 AC-FT 151,600 MEAN† 210 CFSM† 3.86 IN.† 52.33 AC-FT† 151,900

† Adjusted for change in contents in Timothy Lake.

14209000 OAK GROVE FORK ABOVE POWERPLANT INTAKE, OREG.

LOCATION.--Lat 45°04'20", long 121°57'00", on line between secs.3 and 4, T.6 S., R.7 E., Clackamas County, Mount Hood National Forest, on right bank 0.2 mi (0.3 km) upstream from Spring Creek, 0.7 mi (1.1 km) upstream from Kink Creek, 1.0 mi (1.6 km) upstream from Portland General Electric Co. diversion dam, 24 mi (39 km) southeast of Estacada, and at mile 6.1 (9.8 km).

DRAINAGE AREA.--126 mi² (326 km²), includes that of Spring Creek.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as both Oak Grove Fork of Clackamas River at proposed intake, near Cazadero, and Oak Grove Fork of Clackamas River at intake, near Cazadero, May 1909 to September 1910, as Oak Grove Fork of Clackamas River at intake, near Cazadero, October 1910 to September 1921, and as Oak Grove Fork at Portland General Electric Power Co. intake, October 1921 to September 1929.

GAGE.--Water-stage recorder. Datum of gage is 2,052.31 ft (625.544 m) above mean sea level. May 21, 1909, to Nov. 17, 1911, nonrecording gage and Mar. 26, 1912, to Sept. 30, 1923, water-stage recorder, at various sites 0.7 mi (1.1 km) downstream, below Kink Creek, at different datum.

AVERAGE DISCHARGE.--65 years, 505 ft³/s (14.3 m³/s), 365,900 acre-ft/yr (451 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,370 ft³/s (95.4 m³/s) Jan. 16, gage height, 5.30 ft (1.615 m); minimum, 289 ft³/s (8.18 m³/s) Oct. 1-4.

Period of record: Maximum discharge, 5,000 ft³/s (142 m³/s) Jan. 7, 1923, gage height, 5.45 ft (1.661 m), site and datum then in use, from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of peak discharge for other stations in Clackamas River basin; minimum, 236 ft³/s (6.68 m³/s) Oct. 15, 16, 18, 1931.

REMARKS.--Records good. Flow regulated since 1956 by Timothy Lake (see station 14208600). No diversion above station. Records include flow of Spring Creek.

REVISIONS (WATER YEARS).--WSP 1248: 1909, 1910(M), 1916, 1918, 1923, 1932. WSP 1935: 1914, 1921.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	463	452	711	975	711	751	855	1,120	602	442	401
2	314	535	432	659	847	751	725	876	1,150	596	437	401
3	309	541	427	610	799	738	672	952	1,180	615	437	391
4	319	530	447	580	812	738	634	1,020	1,340	596	432	396
5	328	547	535	550	799	731	685	1,060	1,490	596	427	401
6	328	518	495	520	778	640	725	1,040	1,400	584	427	406
7	328	535	659	500	785	725	711	1,030	1,420	590	427	406
8	324	484	621	480	765	731	785	1,090	1,270	565	437	401
9	324	427	541	470	758	725	812	1,150	1,160	553	442	396
10	347	512	500	460	744	725	792	1,220	1,150	559	442	396
11	376	578	518	490	738	758	869	1,260	1,180	547	432	396
12	381	666	484	520	731	799	751	1,290	1,230	553	416	396
13	376	602	506	570	718	792	847	1,190	1,290	541	422	391
14	376	518	524	610	725	792	1,010	1,180	1,340	547	422	391
15	386	602	518	1,950	725	805	1,070	1,120	1,330	524	422	386
16	422	819	672	3,060	758	826	1,030	1,030	1,290	495	432	386
17	437	634	876	2,650	744	744	1,000	847	1,280	500	437	391
18	447	535	765	2,080	758	584	1,020	799	1,260	512	442	427
19	452	524	672	1,980	738	609	944	785	1,200	495	447	386
20	463	518	751	1,520	590	718	785	771	1,130	479	442	396
21	468	524	1,000	1,350	541	819	799	771	1,070	479	427	396
22	458	530	840	1,220	627	833	819	785	1,050	474	416	396
23	463	524	771	1,150	718	833	819	805	992	452	422	447
24	468	524	890	1,030	711	833	819	833	913	442	422	484
25	463	547	1,150	1,050	718	840	840	898	876	432	422	484
26	458	530	913	1,020	718	855	805	1,030	855	437	427	479
27	452	547	1,130	936	711	862	799	1,230	826	447	427	474
28	458	506	1,140	876	692	744	799	1,210	765	447	427	401
29	463	512	1,060	778	------	751	792	1,180	609	463	416	396
30	458	463	847	819	------	778	833	1,140	609	452	416	452
31	571	------	785	921	------	751	------	1,110	------	442	406	------
TOTAL	12,531	16,295	21,921	32,120	20,723	23,541	24,742	31,557	33,775	16,016	13,292	12,350
MEAN	404	543	707	1,036	740	759	825	1,018	1,126	517	429	412
MAX	571	819	1,150	3,060	975	862	1,070	1,290	1,490	615	447	484
MIN	309	427	427	460	541	584	634	771	609	432	406	386
AC-FT	24,860	32,320	43,480	63,710	41,100	46,690	49,080	62,590	66,990	31,770	26,360	24,500

CAL YR 1973 TOTAL 149,469 MEAN 410 MAX 1,150 MIN 256 AC-FT 296,500
WTR YR 1974 TOTAL 258,863 MEAN 709 MAX 3,060 MIN 309 AC-FT 513,500

14209500 CLACKAMAS RIVER ABOVE THREE LYNX CREEK, OREG.

LOCATION.--Lat 45°07'30", long 122°04'20", in NE¼ sec.21, T.5 S., R.6 E., Clackamas County, Mount Hood National Forest, on right bank 0.1 mi (0.2 km) upstream from Three Lynx Creek, 0.25 mi (0.40 km) downstream from powerplant, 17 mi (27 km) southeast of Estacada, and at mile 47.8 (76.9 km).

DRAINAGE AREA.--479 mi² (1,241 km²).

PERIOD OF RECORD.--April 1909 to December 1913, October 1921 to current year. Prior to October 1911 (monthly discharge only), published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,091.69 ft (332.747 m) above mean sea level (levels by Portland General Electric Co.). Apr. 23, 1909, to Jan. 4, 1914, nonrecording gage at about same site and datum. Nov. 1, 1921, to Dec. 27, 1924, water-stage recorder at present site at datum 0.91 ft (0.277 m) higher.

AVERAGE DISCHARGE.--57 years, 2,001 ft³/s (56.7 m³/s), 56.73 in/yr (1,441 mm/yr), 1,450,000 acre-ft/yr (1.79 km³/yr).

EXTREMES.--Current year: Maximum discharge, 36,200 ft³/s (1,030 m³/s) Jan. 15, gage height, 15.64 ft (4.767 m); minimum daily, 751 ft³/s (21.3 m³/s) Sept. 28.

Period of record: Maximum discharge, 68,200 ft³/s (1,930 m³/s) Dec. 22, 1964, gage height, 21.7 ft (6.61 m), from floodmark, from rating curve extended above 34,100 ft³/s (966 m³/s) on basis of slope-area measurement at gage height 15.06 ft (4.590 m); minimum, 324 ft³/s (9.18 m³/s) Oct. 17, 1958; minimum daily, 427 ft³/s (12.1 m³/s) Oct. 5, 1958.

REMARKS.--Records excellent except those below 500 ft³/s (14.2 m³/s), which are poor. Minor regulation since 1956 by Timothy Lake (see station 14208600). Considerable diurnal fluctuation during period of low flow.

REVISIONS (WATER YEARS).--WSP 1148: Drainage area. WSP 1248: 1910(M), 1912, 1948-50(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	766	3,490	3,570	3,850	5,510	3,060	5,330	3,610	3,610	2,300	1,100	862
2	771	2,120	3,120	3,250	4,260	2,980	4,960	3,410	4,170	2,050	1,060	862
3	760	1,730	2,800	2,900	3,520	2,650	4,200	3,330	4,540	1,930	1,090	851
4	761	1,630	2,650	2,580	3,670	2,520	3,590	3,400	5,540	1,920	1,110	860
5	777	1,490	2,440	2,450	3,290	3,110	3,400	3,800	7,340	1,940	1,030	864
6	770	1,410	2,630	2,250	2,910	3,160	3,640	4,520	5,830	1,890	1,020	863
7	796	1,340	8,510	2,180	2,690	2,740	3,530	4,840	5,060	1,800	1,010	862
8	805	1,510	6,870	2,080	2,520	2,480	3,400	5,100	4,260	1,780	1,010	856
9	776	5,450	4,580	1,950	2,410	2,310	3,340	4,940	3,890	1,800	999	866
10	771	7,190	3,570	1,790	2,330	2,250	3,100	4,630	3,940	1,740	991	875
11	809	7,630	3,200	1,850	2,270	2,350	3,540	4,740	4,520	1,730	981	858
12	813	8,140	3,320	2,040	2,220	2,530	3,900	5,400	5,050	1,650	967	845
13	809	5,980	3,830	4,480	2,150	2,460	3,520	4,550	5,340	1,610	969	830
14	797	4,690	3,620	7,710	2,250	2,490	3,380	4,040	5,410	1,600	976	822
15	813	6,840	4,200	26,700	2,330	2,880	3,330	3,710	5,150	1,600	961	821
16	842	10,100	7,180	25,500	3,120	3,650	3,140	3,400	4,670	1,500	941	818
17	847	5,940	10,700	14,900	3,030	4,720	3,090	2,970	4,670	1,500	906	815
18	863	4,050	7,270	10,900	3,240	3,880	3,220	2,760	4,780	1,570	933	825
19	872	3,040	5,160	11,000	5,940	3,360	3,190	2,640	4,520	1,480	966	763
20	946	3,030	6,560	7,870	4,180	3,100	2,870	2,530	4,040	1,440	978	962
21	1,040	2,840	10,300	6,100	3,350	2,980	2,880	2,470	3,650	1,410	950	818
22	995	2,560	7,390	5,100	2,930	2,840	3,130	2,560	3,500	1,350	944	803
23	996	2,410	6,420	4,630	2,730	2,700	3,290	2,730	3,210	1,320	958	852
24	1,070	2,440	5,750	4,110	2,510	2,640	3,240	2,980	2,920	1,280	905	907
25	1,160	2,470	7,310	4,100	2,530	2,740	3,330	3,470	2,740	1,240	948	899
26	1,130	2,320	5,470	4,070	2,630	3,040	3,120	4,430	2,560	1,270	980	906
27	1,090	2,530	7,340	3,830	2,570	3,430	3,020	4,810	2,400	1,180	896	890
28	1,150	4,680	8,570	3,660	3,040	4,830	2,920	4,400	2,330	1,160	890	751
29	1,230	4,910	7,120	3,370	------	6,060	2,920	4,000	2,140	1,190	886	791
30	1,150	4,120	6,070	3,270	------	6,540	3,270	3,640	2,290	1,150	884	936
31	2,590	------	4,770	4,520	------	5,680	------	3,490	------	1,120	881	------
TOTAL	29,765	118,080	172,290	184,990	86,130	102,160	102,790	117,300	124,070	48,500	30,120	25,533
MEAN	960	3,936	5,558	5,967	3,076	3,295	3,426	3,784	4,136	1,565	972	851
MAX	2,590	10,100	10,700	26,700	5,940	6,540	5,330	5,400	7,340	2,300	1,110	962
MIN	760	1,340	2,440	1,790	2,150	2,250	2,870	2,470	2,140	1,120	881	751
CFSM	2.00	8.22	11.6	12.5	6.42	6.88	7.15	7.90	8.63	3.27	2.03	1.78
IN.	2.31	9.17	13.38	14.37	6.69	7.93	7.98	9.11	9.64	3.77	2.34	1.98
AC-FT	59,040	234,200	341,700	366,900	170,800	202,600	203,900	232,700	246,100	96,200	59,740	50,640

CAL YR 1973 TOTAL 695,649 MEAN 1,906 MAX 11,100 MIN 665 CFSM 3.98 IN 54.03 AC-FT 1,380,000
WTR YR 1974 TOTAL 1,141,728 MEAN 3,128 MAX 26,700 MIN 751 CFSM 6.53 IN 88.67 AC-FT 2,265,000

PEAK DISCHARGE (BASE, 8,100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	0900	6.84	8,760	12-21	0230	8.05	11,400
11-16	0700	8.19	11,780	12-28	0200	7.39	9,960
12- 7	1400	8.02	11,400	1-15	2400	15.64	36,200
12-17	0930	8.37	12,200				

14210000 CLACKAMAS RIVER AT ESTACADA, OREG.

LOCATION.--Lat 45°18'00", long 122°21'10", in NE¼ sec.19, T.3 S., R.4 E., Clackamas County, on left bank 0.2 mi (0.3 km) downstream from River Mill Dam, 1.5 mi (2.4 km) northwest of Estacada, and at mile 23.1 (37.2 km).

DRAINAGE AREA.--671 mi^2 (1,738 km^2).

PERIOD OF RECORD.--April 1908 to current year. Monthly discharge only April 1908, published in WSP 1318. Published as "near Cazadero" January 1909 to September 1957.

GAGE.--Water-stage recorder. Datum of gage is 296.93 ft (90.504 m) above mean sea level (levels by Portland General Electric Co.). See WSP 1738 for history of changes prior to Oct. 1, 1957. Oct. 1, 1957, to Feb. 16, 1965, water-stage recorder at same site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--66 years, 2,762 ft^3/s (78.2 m^3/s), 55.90 in/yr (1,420 mm/yr), 2,001,000 acre-ft/yr (2.47 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 60,000 ft^3/s (1,700 m^3/s) Jan. 16, gage height, 15.03 ft (4.581 m); minimum, 542 ft^3/s (15.3 m^3/s) Sept. 10.

Period of record: Maximum discharge, 86,900 ft^3/s (2,460 m^3/s) Dec. 22, 1964, gage height, 18.36 ft (5.596 m); minimum, 50 ft^3/s (1.42 m^3/s) Mar. 10, 1961, from rating curve extended below 260 ft^3/s (7.36 m^3/s); minimum daily, 285 ft^3/s (8.07 m^3/s) Oct. 4, 5, 1958, caused by filling of North Fork dam forebay.

REMARKS.--Records excellent. Large diurnal fluctuations and some regulation caused by powerplants at River Mill Dam and, since 1958, North Fork Dam. Minor regulation since 1956 by Timothy Lake (see station 14208600). Two small diversions above station for Oregon City and Estacada municipal water supply.

REVISIONS (WATER YEARS).--WSP 1248: 1908-9, 1910(M), 1916, 1917(M), 1922(M), 1923. WSP 1288: Drainage area (former site). WSP 1638: 1919(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	6,750	6,240	5,750	7,740	4,390	7,580	4,660	4,320	3,040	1,360	1,050
2	1,000	3,700	4,950	4,730	6,050	4,390	7,470	4,410	5,010	2,720	1,380	1,040
3	959	2,630	4,540	4,130	5,070	3,660	6,170	4,220	5,760	2,240	1,420	1,060
4	896	2,640	4,020	3,890	4,980	3,660	5,070	4,170	6,810	2,410	1,200	1,040
5	852	2,590	3,680	3,490	4,840	4,350	4,660	4,480	9,900	2,490	1,420	1,040
6	852	2,230	3,820	3,200	4,090	5,440	5,140	5,740	7,880	2,390	1,350	1,060
7	986	2,010	12,200	2,730	3,410	4,220	5,050	6,030	6,630	2,280	1,350	1,050
8	1,180	2,760	10,900	2,830	3,280	3,480	4,610	6,500	5,600	2,320	1,220	1,050
9	995	7,030	7,230	2,780	3,020	3,280	4,520	6,320	4,840	2,410	1,240	1,040
10	950	10,800	5,580	2,530	3,080	2,970	4,370	6,050	4,840	2,220	1,230	1,050
11	923	11,100	5,160	2,530	3,090	3,150	5,210	6,080	5,500	2,320	1,220	1,120
12	860	12,300	5,210	2,560	2,880	3,500	6,250	7,800	6,270	2,150	1,090	1,050
13	869	9,380	5,870	5,390	2,720	3,470	5,230	6,450	6,730	2,030	1,200	1,060
14	932	7,470	5,300	10,700	2,950	3,470	4,640	5,720	6,730	2,050	1,220	1,010
15	941	10,200	6,140	42,000	2,450	4,320	4,320	5,370	6,450	2,060	1,370	954
16	941	16,100	11,100	43,500	3,760	5,720	3,920	4,910	5,720	1,960	1,210	967
17	939	9,410	17,100	23,200	4,300	7,150	4,030	4,260	5,640	1,940	1,140	973
18	950	6,540	11,600	15,400	4,520	5,760	3,940	3,920	5,640	2,070	973	967
19	1,030	4,760	8,000	15,500	9,500	4,940	4,130	4,030	5,600	1,930	1,240	961
20	1,100	4,450	9,320	10,800	6,400	3,980	3,680	3,920	4,820	1,860	1,070	929
21	1,660	4,570	16,200	8,020	5,120	4,070	3,680	3,430	4,390	1,860	1,290	980
22	1,480	4,430	11,100	6,700	3,900	3,600	4,010	3,600	4,170	1,760	1,280	967
23	1,080	3,740	9,570	6,420	3,840	3,430	4,130	3,540	3,780	1,670	1,220	973
24	1,420	4,540	8,370	6,080	3,280	3,370	4,150	3,860	3,660	1,550	1,070	1,020
25	1,850	3,740	11,300	5,860	3,370	3,350	4,150	4,480	3,450	1,640	986	1,070
26	1,740	4,180	8,320	5,790	3,540	3,680	4,170	5,690	3,010	1,520	1,090	1,120
27	1,320	4,400	10,800	5,640	3,520	4,240	3,840	6,250	2,990	1,630	1,290	1,070
28	1,540	7,470	13,400	5,720	5,120	6,220	3,980	5,760	2,990	1,440	1,190	1,020
29	2,060	8,780	10,500	5,030	------	8,270	3,940	5,050	2,520	1,460	1,040	993
30	1,660	7,080	9,080	4,890	------	9,690	4,090	4,410	2,640	1,590	1,040	929
31	4,220	------	7,010	5,670	------	8,470	------	4,280	------	1,540	1,050	------
TOTAL	39,225	187,880	263,610	273,460	120,300	143,730	140,150	155,390	154,290	62,550	37,449	30,613
MEAN	1,265	6,263	8,504	8,821	4,296	4,636	4,672	5,013	5,143	2,018	1,208	1,020
MAX	4,220	16,100	17,100	43,500	9,500	9,690	7,580	7,800	9,900	3,040	1,420	1,120
MIN	852	2,010	3,680	2,530	2,720	2,970	3,680	3,430	2,520	1,440	973	929
AC-FT	77,800	372,700	522,900	542,400	238,600	285,100	278,000	308,200	306,000	124,100	74,280	60,720

CAL YR 1973 TOTAL 978,003 MEAN 2,679 MAX 17,100 MIN 700 AC-FT 1,940,000
WTR YR 1974 TOTAL 1,608,647 MEAN 4,407 MAX 43,500 MIN 852 AC-FT 3,191,000

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0330	8.12	18,700	12-21	0100	7.93	17,900
12- 7	1900	7.86	17,600	1-16	0200	15.03	60,000
12-17	1200	8.31	19,500				

14211000 CLACKAMAS RIVER NEAR CLACKAMAS, OREG.

LOCATION.--Lat 45°23'36", long 122°31'34", in NE¼SW¼ sec.14, T.2 S., R.2 E., Clackamas County, on left bank 0.8 mi (1.3 km) upstream from Johnson Creek, 2.1 mi (3.4 km) southeast of Clackamas, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--930 mi² (2,409 km²) at gage, 936 mi² (2,424 km²) at Gladstone Bridge 3.6 mi (5.8 km) downstream, where high-flow discharge measurements are made.

PERIOD OF RECORD.--September 1911 to April 1912 (published as "at Park Place"), October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 30.68 ft (15.447 m) above mean sea level (levels by Corps of Engineers). Sept. 15, 1911, to Apr. 22, 1912, nonrecording gage at site 3.6 mi (5.8 km) downstream at different datum. Oct. 1, 1962, to Sept. 10, 1969, water-stage recorder at site 300 ft (91 m) downstream at present datum.

AVERAGE DISCHARGE.--12 years, 3,849 ft³/s (109 m³/s), 56.20 in/yr (1,427 mm/yr), 2,789,000 acre-ft/yr (3.44 km³/yr).

EXTREMES.--Current year: Maximum discharge, 62,000 ft³/s (1,756 m³/s) Jan. 16, gage height, 18.72 ft (5.706 m); minimum, 825 ft³/s (23.4 m³/s) Sept. 10.
Period of record: Maximum discharge, 120,000 ft³/s (3,400 m³/s) Dec. 22, 1964, gage height, 27.0 ft (8.23 m), from floodmarks; minimum, 336 ft³/s (9.52 m³/s) Sept. 1, 11, 1969.

REMARKS.--Records fair. Diurnal fluctuations and some regulation by powerplants and several storage dams upstream, operated by Portland General Electric Co. Small diversions above station for Estacada municipal water supply. Records of water temperatures for the current year are published in Part 2 of this report. All records given herein are for gage site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	8,670	8,340	7,550	11,000	7,490	10,100	5,810	5,500	3,280	1,450	1,070
2	1,080	4,670	6,610	6,230	8,950	7,520	10,200	5,770	6,000	3,230	1,410	1,050
3	1,020	3,290	6,060	5,350	7,700	6,340	8,860	5,390	6,500	2,450	1,470	1,060
4	995	3,310	5,350	4,870	7,490	5,970	7,470	5,260	8,000	2,590	1,320	1,050
5	952	3,190	4,900	4,300	7,370	7,570	6,850	5,530	10,500	2,720	1,350	1,050
6	958	2,920	4,900	4,170	6,500	10,100	7,240	6,700	8,500	2,590	1,480	1,070
7	1,040	2,620	14,200	3,360	5,330	7,570	7,110	7,060	7,000	2,530	1,390	1,060
8	1,210	2,520	14,000	3,610	5,060	6,120	6,630	7,570	6,000	2,480	1,270	1,060
9	1,100	7,830	9,240	3,210	4,570	5,440	6,580	7,370	5,500	2,680	1,270	1,070
10	1,010	12,500	7,140	3,160	4,590	4,920	6,730	7,210	5,000	2,480	1,260	1,060
11	1,000	12,700	6,470	2,870	4,560	4,880	7,420	7,210	5,500	2,510	1,260	1,160
12	987	15,500	6,560	3,140	4,170	5,660	8,950	9,240	6,500	2,370	1,170	1,080
13	1,000	13,100	7,750	6,120	3,990	5,860	7,550	8,010	7,000	2,200	1,200	1,080
14	1,020	10,300	7,030	12,500	4,280	5,790	6,700	7,110	7,000	2,180	1,260	1,050
15	1,020	14,100	7,780	45,800	4,440	7,190	6,140	6,830	7,290	2,170	1,320	980
16	1,010	22,900	14,800	50,900	5,610	8,310	5,640	6,580	6,430	2,110	1,350	973
17	1,010	13,300	23,600	30,900	6,320	9,650	5,530	6,030	6,230	2,160	1,230	987
18	1,020	8,920	15,900	21,200	6,880	8,190	5,390	5,680	6,280	2,300	1,020	980
19	1,020	6,580	10,800	20,800	12,900	7,010	5,500	6,210	6,210	2,130	1,190	973
20	1,100	6,340	11,500	14,700	9,760	5,920	5,040	5,880	5,590	2,040	1,230	946
21	1,720	6,520	21,300	11,100	7,850	5,750	4,920	5,150	4,830	1,990	1,230	965
22	1,730	7,090	14,600	9,000	6,470	5,090	5,220	5,170	4,960	1,850	1,320	987
23	1,210	6,100	12,400	9,260	5,990	4,790	5,440	4,980	4,630	1,850	1,270	965
24	1,390	6,800	10,500	8,860	5,200	4,630	5,440	5,280	4,360	1,590	1,160	1,010
25	2,040	6,030	14,300	8,720	5,170	4,570	5,480	5,900	4,180	1,780	1,000	1,070
26	1,880	6,340	10,800	8,440	5,880	4,810	5,530	7,010	3,590	1,570	1,130	1,090
27	1,590	6,410	13,800	8,860	6,280	5,460	5,200	7,730	3,330	1,720	1,230	1,110
28	1,600	9,560	18,000	9,640	7,800	7,600	5,310	6,500	3,360	1,540	1,270	1,050
29	2,490	12,400	14,100	7,700	------	9,940	5,280	6,000	2,890	1,500	1,090	1,030
30	2,010	9,790	12,000	7,670	------	12,100	5,350	5,500	2,830	1,620	1,040	934
31	3,460	------	9,240	8,440	------	11,400	------	5,500	------	1,580	1,070	------
TOTAL	41,772	252,300	343,970	352,430	182,110	213,640	194,800	197,170	171,490	67,790	38,710	31,020
MEAN	1,347	8,410	11,100	11,370	6,504	6,892	6,493	6,360	5,716	2,187	1,249	1,034
MAX	3,460	22,900	23,600	50,900	12,900	12,100	10,200	9,240	10,500	3,280	1,480	1,160
MIN	952	2,520	4,900	2,870	3,990	4,570	4,920	4,980	2,830	1,500	1,000	934
CFSM	1.45	9.04	11.9	12.2	6.99	7.41	6.98	6.84	6.15	2.35	1.34	1.11
IN.	1.67	10.09	13.76	14.10	7.28	8.55	7.79	7.89	6.86	2.71	1.55	1.24
AC-FT	82,850	500,400	682,300	699,000	361,200	423,800	386,400	391,100	340,200	134,500	76,780	61,530

CAL YR 1973 TOTAL 1,270,802 MEAN 3,482 MAX 23,600 MIN 789 CFSM 3.74 IN 50.83 AC-FT 2,521,000
WTR YR 1974 TOTAL 2,087,202 MEAN 5,718 MAX 50,900 MIN 934 CFSM 6.15 IN 83.49 AC-FT 4,140,000

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1500	9.39	17,700	12-21	0400	10.87	23,400
11-16	0530	11.61	26,600	12-28	0400	10.26	21,000
12- 7	2030	10.40	21,600	1-16	0400	18.72	62,000
12-17	1330	11.69	26,900				

14211500 JOHNSON CREEK AT SYCAMORE, OREG.

LOCATION.--Lat 45°28'40", long 122°30'24", in lot 2, SW¼ sec.13, T.1 S., R.2 E., Multnomah County, on right bank 0.3 mi (0.5 km) southwest of Sycamore station, 2.5 mi (4.0 km) east of city limits of Portland, and at mile 10.2 (16.4 km).

DRAINAGE AREA.--28.2 mi^2 (73.0 km^3).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 228.47 ft (69.638 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 55.4 ft^3/s (1.57 m^3/s), 26.68 in/yr (678 mm/yr), 40,140 acre-ft/yr (49.5 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) Jan. 15, gage height, 12.72 ft (3.877 m); minimum, 0.48 ft^3/s (0.014 m^3/s) Sept. 3.

Period of record: Maximum discharge, 2,620 ft^3/s (74.2 m^3/s) Dec. 22, 1964, gage height, 14.68 ft (4.474 m); minimum, 0.08 ft^3/s (0.002 m^3/s) Aug. 21, 1966.

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by recreational ponds upstream. Small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1318: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	33	42	111	316	272	252	13	7.4	2.0	1.2	.80
2	1.5	18	66	78	187	248	264	11	6.4	2.0	.92	.58
3	1.5	14	54	54	141	207	233	10	6.1	2.1	.92	.53
4	1.5	47	46	40	185	172	166	8.7	18	1.8	.86	.53
5	1.5	67	42	24	127	476	138	8.4	19	2.9	.86	.58
6	5.5	62	70	23	101	392	112	7.6	11	2.1	.75	.58
7	5.0	52	209	19	83	202	97	7.1	8.2	2.3	.86	.58
8	3.9	44	155	16	70	135	81	6.6	6.9	9.5	.75	.58
9	2.9	259	97	13	59	102	140	6.4	5.9	14	.80	3.1
10	2.1	148	64	11	52	90	169	8.4	5.2	19	.69	1.6
11	2.3	143	64	15	45	115	142	13	4.8	11	.64	1.1
12	2.5	322	176	20	42	199	109	9.2	4.5	4.8	.64	.92
13	6.4	247	318	165	51	194	86	7.4	4.1	3.5	.75	.69
14	6.6	301	236	370	115	229	66	11	3.9	2.9	.86	.64
15	4.5	719	204	1.620	105	400	53	11	3.9	2.3	.86	.58
16	3.5	736	524	1.780	182	232	43	20	3.7	1.8	.75	.64
17	3.1	225	512	968	151	164	37	16	3.5	14	.69	.69
18	2.5	121	220	421	305	118	31	35	3.1	7.6	.80	.69
19	2.3	76	145	282	361	93	28	46	3.1	4.8	1.1	.86
20	2.1	184	365	152	221	72	26	39	2.7	3.7	3.9	.75
21	21	174	416	123	180	54	22	31	2.5	2.9	1.5	1.1
22	9.5	288	251	107	169	48	20	25	2.3	2.5	1.2	.75
23	13	206	238	186	136	41	21	21	2.1	2.0	.92	.75
24	11	165	220	155	105	36	20	24	2.1	1.7	.92	.99
25	11	197	201	176	125	34	20	26	2.0	1.7	.86	.64
26	7.4	145	154	152	234	31	21	20	2.3	1.5	.92	.69
27	6.4	184	584	369	257	37	22	17	4.3	1.5	.86	.75
28	8.4	200	428	259	498	152	19	14	3.3	1.5	.80	.99
29	11	146	391	188	------	172	17	12	2.5	1.6	.80	1.3
30	7.4	129	242	238	------	370	14	10	2.1	1.5	.80	2.9
31	21	------	172	416	------	244	------	8.4	------	1.4	.86	------
TOTAL	189.9	5.822	6.973	8.540	4.603	5.345	2.469	503.2	156.9	133.9	30.04	27.88
MEAN	6.13	194	225	275	164	172	82.3	16.2	5.23	4.32	.97	.93
MAX	21	736	584	1.780	498	476	264	46	19	19	3.9	3.1
MIN	1.5	14	42	11	42	31	14	6.4	2.0	1.4	.64	.53
CFSM	.22	6.88	7.98	9.75	5.82	6.10	2.92	.57	.19	.15	.03	.03
IN.	.25	7.68	9.20	11.27	6.07	7.05	3.26	.66	.21	.18	.04	.04
AC-FT	377	11.550	13.830	16.940	9.130	10.600	4.900	998	311	266	60	55

CAL YR 1973 TOTAL 19.849.08 MEAN 54.4 MAX 736 MIN .10 CFSM 1.93 IN 26.18 AC-FT 39.370
WTR YR 1974 TOTAL 34.793.82 MEAN 95.3 MAX 1.780 MIN .53 CFSM 3.38 IN 45.90 AC-FT 69.010

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2200	10.80	1,260	1-31	1000	7.12	592
12-17	0800	8.01	707	2-18	2230	6.99	568
12-20	2400	7.27	574	2-28	1030	7.82	718
12-27	1930	8.11	725	3- 5	2030	8.28	806
1-15	1300	12.72	2,080	3-15	0730	6.70	522
1-27	1500	6.82	536	3-30	1300	6.86	548

14211720 WILLAMETTE RIVER AT PORTLAND, OREG.

LOCATION.--Lat 45°31'07", long 122°40'00", in NW¼NE¼ sec.3, T.1 S., R.1 E., Multnomah County, in pier at east end of drawspan on upstream side of Morrison Bridge in Portland and at mile 12.8 (20.6 km).

DRAINAGE AREA.--11,100 mi² (28,700 km²), approximately.

PERIOD OF RECORD.--October 1972 to current year. Gage-height records collected in this vicinity since 1879 are in reports of the U.S. Weather Bureau.

GAGE.--Acoustic velocity meter (AVM) with water-stage and velocity-index recorder. Datum of gage is 1.55 ft (0.472 m) above mean sea level (levels by U.S. Weather Bureau).

EXTREMES.--Current year: Maximum discharge, 283,000 ft³/s (8,010 m³/s) Jan. 18; maximum gage height, 23.84 ft (7.266 m) Jan. 18; minimum daily discharge, 5,940 ft³/s (168 m³/s) Aug. 8.

Period of record: Maximum discharge, 283,000 ft³/s (8,010 m³/s) Jan. 18, 1974; maximum gage height, 23.84 ft (7.266 m) Jan. 18, 1974; minimum daily discharge, 4,520 ft³/s (128 m³/s) Aug. 3, 1973.

Floods of June 7, 1894, and June 1, 1948, reached stages of 33.0 ft (10.06 m) and 30.0 ft (9.14 m), respectively, from information by U.S. Weather Bureau.

REMARKS.--Records excellent. Flow regulated by many reservoirs upstream (see elsewhere in this report). Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,980	30,900	129,000	132,000	104,000	98,800	114,000	26,600	30,000	16,200	8,160	7,160
2	8,790	34,100	117,000	117,000	111,000	102,000	115,000	27,100	29,500	15,100	8,180	6,090
3	9,580	29,300	105,000	106,000	110,000	102,000	112,000	27,400	29,100	14,200	7,720	6,690
4	10,400	26,800	95,800	92,900	102,000	89,700	109,000	28,700	29,900	13,700	8,760	6,870
5	11,100	26,600	88,900	78,700	98,600	78,200	101,000	27,900	36,000	14,900	6,120	7,620
6	11,400	26,800	83,900	61,500	90,900	85,000	93,800	28,000	47,100	14,000	7,810	7,680
7	10,500	30,000	91,700	53,300	79,600	92,700	85,100	29,400	49,700	15,400	6,610	8,160
8	10,400	34,000	110,000	48,900	67,800	88,900	74,300	30,500	46,300	15,400	5,940	7,380
9	11,800	47,200	104,000	45,400	58,400	74,400	67,200	30,800	40,600	14,200	6,210	6,660
10	11,700	78,700	92,400	42,200	49,400	59,600	65,600	34,600	33,900	14,300	5,960	7,840
11	11,000	92,800	83,100	39,600	41,200	53,200	62,300	35,000	31,600	14,200	6,180	8,610
12	11,100	107,000	84,300	39,000	37,800	57,600	63,200	37,200	31,600	13,400	6,010	7,680
13	12,000	113,000	95,900	45,800	38,100	67,800	64,600	35,000	32,400	13,000	7,590	7,030
14	13,400	118,000	113,000	73,100	34,400	73,700	61,100	32,800	32,100	13,000	8,270	8,480
15	12,600	134,000	126,000	146,000	34,900	86,700	54,700	30,700	33,300	11,800	7,080	9,240
16	13,400	177,000	142,000	232,000	39,900	104,000	47,200	31,300	32,900	10,900	7,500	8,290
17	12,300	190,000	164,000	267,000	52,500	113,000	41,800	30,700	30,400	9,890	8,700	8,750
18	13,900	176,000	166,000	276,000	59,400	106,000	38,400	30,400	27,600	9,960	8,160	10,300
19	14,100	145,000	157,000	254,000	80,600	96,700	35,900	31,600	26,900	10,800	6,600	11,700
20	15,100	124,000	152,000	209,000	99,300	83,200	35,200	30,000	26,700	11,300	7,950	11,600
21	15,700	118,000	170,000	181,000	103,000	68,200	34,500	30,000	25,700	10,100	9,380	12,100
22	15,000	124,000	170,000	147,000	98,400	60,200	32,300	28,900	23,700	9,650	9,220	11,500
23	14,300	125,000	165,000	134,000	87,400	54,300	32,300	27,100	21,800	9,340	8,380	11,000
24	15,400	125,000	148,000	127,000	72,900	50,200	32,900	27,000	21,800	8,830	8,670	11,700
25	16,800	119,000	143,000	121,000	59,400	43,300	34,500	28,300	19,500	9,650	9,140	11,900
26	18,300	116,000	133,000	117,000	58,000	42,600	37,100	30,400	17,700	9,180	8,140	11,200
27	18,100	112,000	127,000	112,000	72,000	41,500	36,900	31,100	17,300	10,100	8,300	11,500
28	17,700	114,000	136,000	106,000	87,200	51,500	29,700	30,300	17,000	9,200	7,630	12,400
29	18,200	127,000	141,000	102,000	------	78,600	26,800	30,300	18,500	8,200	6,300	11,300
30	19,200	131,000	143,000	95,600	------	97,000	24,400	31,600	18,300	8,330	7,560	10,900
31	18,400	------	138,000	93,800	------	111,000	------	32,200	------	8,020	7,360	------
TOTAL	419,650	2,952.2M	3,915.0M	3,695.8M	2,028.1M	2,411.6M	1,762.8M	942,900	878,900	366,250	235,590	279,330
MEAN	13,540	98,410	126,300	119,200	72,430	77,790	58,760	30,420	29,300	11,810	7,600	9,311
MAX	19,200	190,000	170,000	276,000	111,000	113,000	115,000	37,200	49,700	16,200	9,380	12,400
MIN	7,980	26,600	83,100	39,000	34,400	41,500	24,400	26,600	17,000	8,020	5,940	6,090
AC-FT	832,400	5,856M	7,765M	7,331M	4,023M	4,783M	3,497M	1,870M	1,743M	726,500	467,300	554,100

CAL YR 1973 TOTAL 12,188,860 MEAN 33,390 MAX 190,000 MIN 4,520 AC-FT 24,180,000
WTR YR 1974 TOTAL 19,888,120 MEAN 54,490 MAX 276,000 MIN 5,940 AC-FT 39,450,000

14222880 COLUMBIA RIVER AT COLUMBIA CITY, OREG.

LOCATION.--Lat 45°53'41", long 122°48'23", in NW¼NE¼ sec.28, T.5 N., R.1 W., Columbia County, on left bank in Columbia City, at the pumping station at the corner of "E" Street and "The Strand", and at mile 84.0 (135.2 km).

DRAINAGE AREA.--234,000 mi² (657,900 km²), approximately.

PERIOD OF RECORD.--October 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at Columbia River datum, 0.79 ft (0.241 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height, 19.68 ft (5.998 m) Jan. 19; minimum, 0.88 ft (0.268 m) Sept. 29.
Period of record: Maximum gage height, 19.68 ft (5.998 m) Jan. 19, 1974; minimum, -0.10 ft (-0.030 m) Sept. 9, 1973.

REMARKS.--Flow regulated by many reservoirs upstream. Records of water temperatures for the current year are published in Part 2 of this report.

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.39	2.77	3.61	7.62	6.47	7.03	9.37	7.44	8.52
2	---	---	---	3.78	2.43	3.21	7.01	5.90	6.36	7.71	6.62	7.23
3	---	---	---	3.58	2.02	2.91	6.88	5.32	5.91	8.04	6.24	7.34
4	---	---	---	4.25	1.84	3.07	5.85	4.85	5.26	7.92	6.14	6.97
5	---	---	---	4.52	1.98	3.16	6.53	4.90	5.80	7.38	4.83	6.49
6	---	---	---	4.82	2.11	3.32	7.33	5.24	6.09	6.86	4.10	5.36
7	---	---	---	5.18	2.33	3.52	7.93	5.41	6.59	7.36	4.02	5.49
8	---	---	---	5.20	2.08	3.58	8.40	6.46	7.35	7.47	4.52	5.72
9	3.89	1.79	2.69	6.90	2.86	4.84	8.26	6.21	7.01	7.33	4.73	5.79
10	4.29	1.29	2.86	7.44	4.45	5.84	8.67	6.32	7.26	7.05	4.64	5.74
11	4.78	1.42	3.07	8.25	5.08	6.50	9.43	6.37	7.70	6.79	4.66	5.68
12	5.20	1.82	3.45	9.00	5.83	7.18	9.37	7.12	8.04	6.45	4.24	5.39
13	5.39	1.92	3.56	9.01	6.65	8.29	9.29	7.15	8.19	7.30	4.18	5.70
14	5.00	1.59	3.22	8.76	6.84	7.82	9.12	7.39	8.35	8.05	4.64	6.41
15	5.37	1.44	3.20	9.13	6.97	8.05	9.56	8.11	8.87	13.23	6.78	9.51
16	4.85	1.60	3.12	10.78	8.81	9.83	9.53	8.26	8.89	17.39	13.32	15.76
17	5.06	1.77	3.26	10.65	9.61	10.20	10.20	8.75	9.49	18.47	17.40	18.08
18	4.34	1.72	2.86	9.74	8.12	8.87	10.65	9.28	9.78	19.54	18.39	19.07
19	4.37	1.21	2.76	8.36	6.67	7.52	10.24	9.23	9.68	19.68	19.02	19.47
20	4.24	1.14	2.77	8.21	6.48	7.22	11.15	9.62	10.28	19.01	17.22	18.33
21	4.18	1.17	2.79	8.16	6.40	7.21	11.44	10.20	10.79	17.19	15.38	16.34
22	4.71	1.33	3.10	7.68	5.86	6.69	12.04	10.72	11.44	15.36	14.46	14.95
23	5.45	2.24	3.82	7.91	5.85	6.81	11.77	10.05	11.04	14.66	14.27	14.45
24	5.94	2.47	4.08	7.72	5.77	6.84	10.96	9.75	10.33	14.46	13.90	14.25
25	5.66	2.44	4.00	8.05	5.62	6.79	11.30	10.18	10.84	14.60	13.97	14.28
26	5.27	2.15	3.65	8.07	5.94	6.95	11.04	9.85	10.51	14.47	14.11	14.29
27	5.09	1.94	3.34	7.92	6.00	6.95	11.04	9.65	10.37	14.15	13.79	13.95
28	4.97	1.67	3.23	8.22	6.27	7.34	11.97	10.73	11.51	13.82	13.31	13.56
29	4.65	1.59	2.90	8.15	6.93	7.59	11.96	11.31	11.61	13.35	12.78	13.05
30	4.36	1.69	2.82	7.73	6.69	7.27	11.58	10.38	11.07	12.92	12.22	12.60
31	4.94	1.68	3.35	---	---	---	10.49	9.37	9.97	12.83	12.02	12.40
MONTH	---	---	---	10.78	1.84	6.30	12.04	4.85	8.81	19.68	4.02	11.03

14222880 COLUMBIA RIVER AT COLUMBIA CITY, OREG.--Continued

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.60	12.00	12.26	8.99	7.64	8.23	10.18	9.47	9.91	11.26	10.84	11.04
2	12.36	11.55	12.02	9.76	8.34	8.99	11.08	10.28	10.69	11.58	10.94	11.22
3	12.01	11.29	11.65	---	8.57	8.94	11.49	10.84	11.22	11.63	11.13	11.41
4	12.16	11.29	11.64	---	---	---	11.98	11.28	11.58	11.81	11.18	11.46
5	11.80	10.74	11.37	---	---	9.05	11.75	11.02	11.49	11.82	11.10	11.44
6	11.27	10.21	10.80	9.57	8.18	8.92	11.59	10.26	10.86	11.84	11.11	11.50
7	10.62	9.16	9.97	9.60	7.89	8.84	10.85	9.68	10.19	12.09	11.38	11.79
8	9.58	8.45	9.05	9.25	7.87	8.58	10.65	9.50	10.04	12.29	11.70	12.00
9	8.97	7.49	8.22	9.42	7.69	8.51	10.71	9.47	9.96	12.31	11.78	12.07
10	8.56	6.96	7.67	9.39	6.82	8.05	10.25	9.08	9.60	12.34	11.89	12.12
11	8.30	6.70	7.37	7.98	5.64	6.76	10.06	9.15	9.55	12.12	11.39	11.78
12	8.42	6.74	7.47	8.25	6.26	7.25	10.05	9.40	9.70	11.47	10.48	11.00
13	7.84	6.15	6.99	8.63	6.82	7.49	9.87	9.25	9.57	10.54	9.03	9.69
14	7.29	4.91	6.13	7.92	6.77	7.26	9.63	8.98	9.34	9.32	8.34	8.86
15	6.68	4.71	5.64	8.49	7.27	7.87	9.21	7.93	8.60	8.93	7.96	8.40
16	6.87	5.21	6.01	8.94	8.15	8.49	8.26	7.17	7.71	8.72	7.62	8.26
17	6.48	4.60	5.67	8.58	6.39	7.81	8.32	7.61	7.98	8.76	7.43	8.02
18	7.11	4.71	6.20	8.31	7.00	7.78	8.86	7.91	8.50	8.65	7.89	8.32
19	8.19	6.14	7.50	8.45	7.66	8.08	8.96	8.05	8.62	9.32	8.45	8.84
20	9.01	7.17	8.16	8.48	6.98	7.95	9.39	8.42	8.94	9.66	8.50	8.99
21	9.17	7.67	8.37	8.08	6.93	7.39	9.52	8.30	8.89	9.64	8.38	8.89
22	9.32	8.25	8.76	8.00	6.56	7.27	9.35	7.97	8.65	9.73	8.30	8.89
23	9.24	8.00	8.66	7.76	6.42	7.14	9.55	8.18	8.82	9.71	8.15	8.82
24	9.17	7.78	8.46	8.02	5.78	6.95	9.84	8.30	8.90	9.66	8.10	8.78
25	8.33	6.65	7.47	7.58	5.45	6.63	9.14	7.35	8.15	9.65	8.41	8.99
26	8.62	6.83	7.75	8.66	6.56	7.48	8.74	7.31	8.04	9.69	8.62	9.14
27	9.29	7.09	8.06	8.70	6.69	7.57	9.98	8.41	9.34	9.44	8.53	9.01
28	9.82	7.39	8.11	9.09	7.15	8.09	10.38	9.68	10.04	10.03	8.93	9.30
29	---	---	---	8.43	8.52	8.66	10.61	10.14	10.36	10.24	9.66	9.89
30	---	---	---	9.82	8.69	9.19	10.86	10.36	10.59	10.83	9.98	10.32
31	---	---	---	9.48	8.89	9.24	---	---	---	11.12	10.26	10.70
MONTH	12.60	4.60	8.48	9.82	5.45	8.01	11.98	7.17	9.52	12.34	7.43	10.03

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.92	10.15	10.47	14.46	13.77	14.09	6.43	4.20	5.23	4.83	1.58	3.13
2	10.83	9.89	10.26	13.98	13.28	13.65	6.66	3.79	5.11	4.46	1.33	2.99
3	10.63	9.70	10.28	13.50	12.99	13.24	6.23	3.80	4.96	5.17	1.78	3.50
4	10.83	9.97	10.44	13.32	12.86	13.04	5.94	3.07	4.48	5.36	2.50	3.88
5	11.93	10.55	11.41	13.13	12.52	12.85	5.78	2.99	4.39	5.23	2.24	3.69
6	12.57	11.89	12.36	12.81	12.16	12.49	5.69	3.04	4.64	5.24	2.29	3.67
7	12.82	12.35	12.58	12.14	11.31	11.73	5.69	3.09	4.47	5.04	1.96	3.40
8	12.80	12.36	12.58	11.30	10.43	10.92	5.57	2.94	4.26	4.55	1.30	2.82
9	12.52	12.11	12.34	10.72	9.85	10.35	5.45	3.00	4.21	4.94	1.46	2.94
10	12.27	11.59	17.04	10.13	8.72	9.37	5.34	2.85	3.98	4.71	1.86	3.06
11	11.94	11.24	11.58	9.13	7.67	8.34	5.16	2.90	3.81	4.59	1.48	2.85
12	11.71	11.12	11.41	8.47	7.22	7.77	5.66	2.39	3.54	4.71	1.79	3.12
13	12.02	11.44	11.64	8.09	6.20	6.93	5.80	3.46	4.37	5.34	2.67	3.85
14	12.41	11.86	12.04	7.50	5.03	6.02	6.11	2.92	4.26	5.82	2.60	4.22
15	12.98	12.37	12.57	6.69	4.72	5.51	5.88	2.42	3.98	5.59	1.95	3.73
16	13.90	13.02	13.43	6.98	4.53	5.48	6.16	2.92	4.44	5.11	1.55	3.42
17	14.77	13.91	14.37	7.33	4.77	5.86	6.57	3.02	4.55	5.39	1.76	3.60
18	15.88	14.79	15.46	7.63	5.12	6.23	5.84	2.09	3.93	5.67	2.20	3.83
19	16.56	15.81	16.31	8.13	5.53	6.66	5.63	2.23	4.00	5.56	2.35	3.83
20	16.88	16.41	16.74	8.01	5.71	6.72	5.95	2.71	4.41	5.70	2.70	3.98
21	17.19	16.76	17.04	7.89	5.73	6.82	5.64	2.45	4.10	4.78	2.03	3.42
22	17.22	16.82	17.03	7.79	5.50	6.68	5.42	2.05	3.69	4.10	1.49	2.65
23	17.05	16.75	16.90	7.24	5.15	6.26	5.12	2.08	3.51	4.03	1.12	2.49
24	16.90	16.59	16.78	7.37	5.28	6.16	4.51	1.58	2.96	4.01	1.40	2.56
25	16.76	16.28	16.51	7.20	5.46	6.31	4.03	1.06	2.36	3.97	1.63	2.81
26	16.50	16.15	16.33	6.93	5.13	5.93	4.24	1.06	2.37	4.11	1.79	3.06
27	16.50	16.10	16.28	6.81	3.95	5.18	4.34	1.46	2.74	4.06	1.71	2.98
28	16.35	15.89	16.11	5.82	3.33	4.26	4.55	1.76	3.17	3.95	1.46	2.86
29	16.12	15.38	15.74	5.72	3.29	4.42	5.35	2.63	4.00	3.80	0.88	2.48
30	15.49	14.33	14.95	6.12	4.01	4.97	5.54	2.60	3.91	4.70	1.39	3.14
31	---	---	---	6.38	3.78	5.03	5.14	1.81	3.39	---	---	---
MONTH	17.22	9.70	13.79	14.46	3.29	8.04	6.66	1.06	3.97	5.82	0.88	3.26
YEAR	19.68	0.88	7.97									

14245295 COLUMBIA RIVER AT RAINIER, OREG.

LOCATION.--Lat 46°06'02", long 122°57'47", in SE¼SW¼ sec.8, T.7 N., R.2 W., Columbia County, on left bank at Rainier, 1.2 mi (1.9 km) downstream from Nice Creek, 500 ft (152 m) upstream from Interstate bridge, and at mile 66.1 (106.4 km).

DRAINAGE AREA.--256,700 mi^2 (664,900 km^2), approximately.

PERIOD OF RECORD.--November 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at Columbia River datum, 0.34 ft (0.104 m) below mean sea level.

EXTREMES.--Current year: Maximum gage height, 16.52 ft (5.035 m) Jan. 19; minimum, 1.08 ft (0.329 m) Sept. 29.
Period of record: Maximum gage height, 16.52 ft (5.035 m) Jan. 19, 1974; minimum, 0.78 ft (0.238 m) Sept. 9, 1973.

REMARKS.--Flow regulated by many reservoirs upstream. Records of water temperatures for the current year are published in Part 2 of this report.

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.92	1.43	3.51	5.16	2.49	3.86	7.74	5.47	6.60	8.58	6.35	7.34
2	5.38	1.95	3.37	4.50	2.17	3.46	7.06	5.10	5.91	7.58	5.54	6.31
3	4.64	1.59	2.90	4.44	1.86	3.28	7.38	4.64	5.69	7.75	5.08	6.26
4	4.58	1.22	2.87	5.34	1.86	3.52	6.94	4.20	5.29	7.91	4.84	6.17
5	4.68	1.44	2.98	5.51	1.90	3.53	7.09	4.21	5.35	7.65	4.02	5.87
6	5.09	1.33	3.22	5.94	2.18	3.72	8.05	4.41	5.88	7.76	3.33	5.32
7	5.08	1.48	3.19	6.29	2.27	3.87	8.70	5.05	6.37	8.27	3.40	5.52
8	5.24	1.38	3.26	6.47	2.21	3.96	8.82	5.09	6.79	8.53	3.74	5.70
9	5.60	1.85	3.40	8.11	3.32	5.28	8.74	4.96	6.53	8.43	3.82	5.75
10	5.71	1.48	3.43	8.52	4.28	6.06	9.38	5.03	6.96	7.99	3.84	5.72
11	6.22	1.70	3.70	9.32	4.34	6.69	10.49	5.24	7.68	7.53	3.83	5.59
12	6.63	1.99	4.05	9.86	4.90	7.23	10.23	6.26	7.88	7.52	3.74	5.61
13	6.85	2.06	4.19	9.87	5.74	7.46	9.82	6.13	7.95	8.37	3.81	5.95
14	6.44	1.76	3.80	9.26	5.84	7.60	9.09	6.26	7.84	9.09	4.21	6.52
15	6.59	1.41	3.78	9.11	5.94	7.66	9.49	6.75	8.16	11.57	6.17	8.89
16	6.12	1.97	3.71	9.41	7.33	8.86	9.52	7.03	8.13	14.49	11.62	13.37
17	6.30	1.62	3.76	9.75	8.11	8.82	9.89	7.27	8.44	15.52	14.49	14.97
18	5.60	1.71	3.43	8.94	6.85	7.76	9.69	7.60	8.41	16.41	15.00	15.72
19	5.52	1.35	3.37	7.98	5.64	6.70	9.61	7.44	8.31	16.52	15.34	16.01
20	5.48	1.43	3.45	8.68	5.70	6.89	10.54	8.23	9.01	15.54	13.06	15.04
21	5.58	1.46	3.42	8.66	5.39	6.88	10.72	8.61	9.43	13.90	10.99	12.45
22	5.96	1.60	3.59	6.25	4.81	6.37	11.06	8.95	9.88	12.86	11.54	12.38
23	6.73	2.33	4.22	8.51	5.30	6.54	10.46	8.03	9.61	12.61	11.43	11.97
24	7.21	2.58	4.57	8.24	4.77	6.54	10.59	8.03	9.13	12.57	11.29	11.89
25	6.91	2.41	4.42	8.78	4.76	6.73	10.49	8.27	9.42	12.70	11.27	12.04
26	6.56	2.06	4.10	8.46	4.97	6.68	9.93	8.03	9.10	12.45	11.50	11.95
27	6.49	1.78	3.89	8.45	5.17	6.75	10.31	7.90	9.22	12.23	11.21	11.69
28	6.42	1.66	3.85	8.41	5.32	7.04	10.71	8.82	9.98	12.01	10.91	11.36
29	5.82	1.59	3.43	8.14	5.82	7.06	10.50	9.25	9.91	11.81	10.57	11.04
30	5.48	1.64	3.33	7.67	5.61	6.76	10.25	8.58	9.40	11.49	10.13	10.70
31	6.02	1.58	3.87	---	---	---	9.49	7.83	8.52	11.83	10.18	10.81
MONTH	7.21	1.22	3.61	9.91	1.86	6.11	11.06	4.20	7.96	16.52	3.33	9.54

14245295 COLUMBIA RIVER AT RAINIER, OREG.--Continued

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.53	9.94	10.67	9.04	6.49	7.58	9.66	7.95	8.76	9.74	8.57	9.09
2	11.16	9.43	10.25	9.33	7.16	7.98	10.02	8.57	9.21	10.16	8.59	9.29
3	10.96	9.14	9.97	8.95	6.35	7.67	10.40	8.96	9.69	10.32	8.77	9.47
4	11.22	9.07	10.03	8.89	6.48	7.51	10.63	9.23	9.90	10.44	8.75	9.49
5	10.79	8.58	9.71	9.44	6.91	8.07	11.07	9.10	10.16	10.54	8.78	9.57
6	10.52	8.21	9.27	9.55	6.63	8.14	10.94	8.30	9.57	10.69	8.76	9.68
7	9.72	7.38	8.69	9.62	6.66	7.83	10.38	7.84	8.98	10.87	9.02	9.89
8	9.17	6.92	7.97	9.12	6.55	7.48	10.21	7.79	8.88	10.89	9.16	9.98
9	8.80	6.21	7.40	9.55	6.44	7.88	10.38	7.72	8.87	10.85	9.33	10.02
10	8.57	5.74	6.97	9.62	5.91	7.59	9.73	7.29	8.41	10.71	9.33	10.00
11	8.50	5.54	6.71	8.82	4.79	6.61	9.52	7.43	8.35	10.60	9.01	9.81
12	8.70	5.58	6.92	8.80	5.34	6.92	9.15	7.48	8.25	9.70	8.29	9.07
13	8.21	5.28	6.50	8.90	5.74	6.93	8.64	7.22	7.95	8.88	7.10	8.03
14	7.71	4.37	5.89	7.79	5.38	6.46	8.30	7.07	7.72	8.15	6.69	7.55
15	7.10	4.01	5.46	8.18	6.15	6.97	8.02	6.31	7.22	8.14	6.36	7.15
16	7.40	4.45	5.84	8.28	6.68	7.36	7.41	5.59	6.51	8.05	6.24	7.04
17	6.98	3.91	5.49	7.63	5.55	6.83	7.36	6.11	6.72	8.17	6.04	6.91
18	7.65	4.71	6.01	7.40	6.03	6.59	8.11	6.47	7.26	8.26	6.24	7.19
19	8.37	5.50	7.04	7.60	5.98	6.86	8.29	6.56	7.40	8.78	6.61	7.60
20	8.60	5.84	7.28	7.80	5.66	6.84	8.80	6.83	7.74	9.05	6.66	7.72
21	9.07	6.25	7.64	7.79	5.59	6.60	8.93	6.69	7.72	9.29	6.58	7.78
22	8.90	6.68	7.84	7.83	5.28	6.61	9.08	6.40	7.67	9.49	6.54	7.84
23	8.62	6.47	7.56	7.78	5.28	6.53	9.33	6.49	7.79	9.60	6.44	7.88
24	8.65	6.52	7.49	8.10	4.83	6.46	9.59	6.73	7.96	9.63	6.50	7.90
25	8.48	5.61	6.91	8.02	4.69	6.36	9.25	5.98	7.42	9.37	6.69	7.95
26	8.74	5.61	7.13	8.98	5.50	7.06	8.78	5.95	7.23	9.09	6.79	7.92
27	9.13	6.14	7.30	9.25	5.71	7.24	9.15	6.80	8.00	8.59	6.63	7.68
28	9.39	6.30	7.53	9.68	6.36	7.84	9.27	7.60	8.39	9.00	6.98	7.72
29	---	---	---	9.45	6.94	8.03	9.25	7.87	8.51	9.23	7.50	8.15
30	---	---	---	9.58	7.42	8.29	9.50	8.09	8.72	9.61	7.71	8.43
31	---	---	---	9.32	7.32	8.34	---	---	---	9.82	8.14	8.77
MONTH	11.53	3.91	7.62	9.68	4.69	7.27	11.07	5.59	8.23	10.89	6.04	8.47

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.80	7.90	8.69	12.18	10.92	11.43	7.09	3.32	5.05	6.04	1.59	3.66
2	9.84	7.75	8.64	11.89	10.60	11.13	7.19	3.16	4.98	5.78	1.25	3.57
3	9.73	7.63	8.67	11.57	10.20	10.82	6.85	3.02	4.82	6.26	1.81	3.97
4	10.10	7.86	9.02	11.40	10.00	10.63	6.76	2.60	4.51	6.51	2.42	4.29
5	10.66	8.72	9.74	11.28	9.88	10.53	6.42	2.48	4.44	6.38	2.21	4.09
6	11.15	9.61	10.32	11.01	9.58	10.28	6.45	2.75	4.65	6.32	2.23	4.00
7	11.09	9.73	10.39	10.53	8.90	9.74	6.46	2.65	4.52	6.23	2.17	3.83
8	10.96	9.75	10.35	9.86	8.18	9.12	6.36	2.49	4.30	5.79	1.85	3.46
9	10.58	9.50	10.08	9.58	7.92	8.83	6.26	2.58	4.16	6.03	1.71	3.57
10	10.23	9.26	9.82	8.77	7.01	8.09	6.18	2.73	3.98	5.85	1.89	3.60
11	9.89	8.76	9.39	8.18	6.08	7.19	6.10	2.68	3.92	5.77	1.57	3.29
12	10.06	8.90	9.29	7.90	5.77	6.69	6.43	2.19	3.76	5.77	1.62	3.41
13	10.35	9.12	9.49	7.56	5.05	6.09	6.86	2.78	4.30	6.34	2.22	4.01
14	10.61	9.38	9.79	7.31	4.42	5.55	6.90	2.79	4.34	6.87	2.47	4.51
15	11.00	9.71	10.17	7.32	3.84	5.19	6.90	2.11	4.17	6.82	1.85	4.18
16	11.54	10.27	10.82	7.48	3.62	5.31	7.17	2.45	4.55	6.36	1.56	3.93
17	12.04	11.10	11.60	8.26	3.98	5.77	7.58	2.55	4.74	6.63	1.77	4.06
18	12.89	11.94	12.53	8.47	4.11	6.00	7.08	1.94	4.30	6.87	2.10	4.20
19	13.82	12.81	13.33	8.83	4.49	6.36	6.82	2.16	4.43	6.75	2.26	4.20
20	14.31	13.22	13.71	8.67	4.59	6.39	7.04	2.56	4.71	6.88	2.46	4.35
21	14.55	13.42	13.96	8.52	4.68	6.49	6.88	2.31	4.43	6.10	2.27	3.89
22	14.55	13.31	13.87	8.30	4.54	6.40	6.60	2.11	4.09	5.40	1.64	3.29
23	14.24	13.24	13.73	7.82	4.24	5.98	6.24	2.16	3.90	5.15	1.28	3.09
24	13.98	13.04	13.57	7.75	4.20	5.74	5.63	1.95	3.45	5.12	1.47	3.12
25	13.66	12.73	13.31	7.55	4.32	5.69	5.02	1.56	2.96	5.11	1.69	3.32
26	13.71	12.74	13.15	7.36	4.23	5.40	5.29	1.13	2.84	5.11	1.81	3.48
27	13.69	12.77	13.12	6.69	3.65	4.93	5.41	1.41	3.13	5.12	1.67	3.38
28	13.54	12.59	12.93	6.45	2.96	4.24	5.56	1.71	3.53	5.26	1.63	3.30
29	13.37	12.16	12.59	6.47	2.83	4.40	6.19	2.36	4.16	5.08	1.08	3.03
30	12.89	11.46	12.02	6.80	3.22	4.80	6.55	2.37	4.21	5.87	1.73	3.62
31	---	---	---	7.00	3.25	4.88	6.28	1.85	3.84	---	---	---
MONTH	14.55	7.63	11.26	12.18	2.83	7.09	7.58	1.13	4.16	6.88	1.08	3.72
YEAR	16.52	1.08	7.08									

14247295 COLUMBIA RIVER AT WAUNA, OREG.

LOCATION.--Lat 46°09'40", long 123°24'30", in SE¼ sec.22, T.8 N., R.6 W., Clatsop County, on left bank at northwest end of Crown-Zellerbach wood-pulp processing plant at Wauna, and at mile 41.5 (66.8 km).

DRAINAGE AREA.--257,000 mi² (665,600 km²), approximately.

PERIOD OF RECORD.--November 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is at Columbia River datum, 1.76 ft (0.536 m) below mean sea level.

EXTREMES.--Current year: Maximum gage height, 11.32 ft (3.450 m), Dec. 11, Jan. 18; minimum, -0.06 ft (-.018 m), Oct. 14.
Period of record: Maximum gage height, 11.96 ft (3.645 m) Dec. 21, 1972; minimum, -0.19 ft (-0.058 m), Sept. 28, 1973.

REMARKS.--Flow regulated by many reservoirs upstream. Records of water temperatures for the current year are published in Part 2 of this report.

GAGE HEIGHT (FT.) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.30	-0.04	3.36	5.91	0.83	3.72	7.64	2.59	5.32	7.54	3.21	4.81
2	5.96	0.15	3.14	5.18	0.69	3.37	6.90	2.39	4.55	7.48	2.50	4.26
3	5.26	0.01	2.79	5.30	0.62	3.36	7.81	2.55	4.75	6.88	1.74	4.12
4	5.03	-0.02	2.71	6.33	0.96	3.62	7.43	2.41	4.34	7.94	1.35	4.46
5	5.30	0.27	2.98	6.46	0.98	3.55	7.71	2.01	4.47	7.98	1.04	4.35
6	5.73	0.46	3.30	6.94	1.19	3.69	8.72	1.93	4.92	8.56	0.68	4.38
7	5.80	0.44	3.16	7.30	0.82	3.74	9.38	1.87	5.23	9.08	0.83	4.76
8	6.18	0.30	3.11	7.74	0.50	3.88	9.22	1.61	5.08	9.37	0.67	4.93
9	6.48	0.44	2.91	9.31	1.73	5.09	9.41	1.50	5.15	9.26	0.93	5.00
10	6.79	0.38	3.33	9.45	1.50	5.44	10.02	1.75	5.57	8.76	0.97	4.89
11	7.51	0.44	3.64	10.25	1.97	6.04	11.32	2.98	6.88	8.18	0.95	4.79
12	8.06	0.29	3.99	10.55	2.44	6.40	10.88	2.77	6.74	8.40	1.12	5.13
13	8.30	0.16	4.12	10.53	2.64	6.50	10.23	2.75	6.73	9.28	1.98	5.56
14	7.88	-0.06	3.85	9.68	2.56	6.48	9.16	2.91	6.27	10.08	2.31	5.98
15	7.99	0.22	3.94	9.01	2.54	6.33	9.35	2.91	6.38	10.55	4.42	7.25
16	7.62	0.19	3.90	9.26	3.27	6.59	9.34	3.59	6.19	10.91	6.66	8.35
17	7.37	0.02	3.87	8.37	3.66	6.00	9.62	3.71	6.13	10.31	6.84	8.33
18	6.79	0.22	3.65	8.24	3.25	5.36	8.72	3.51	5.61	11.32	7.58	9.01
19	6.60	0.18	3.66	7.70	2.56	4.77	8.75	3.02	5.66	10.80	7.05	8.92
20	6.64	0.56	3.87	9.13	3.14	5.77	9.98	4.01	6.51	10.42	6.15	8.45
21	7.00	0.65	3.75	9.22	2.40	5.64	9.96	3.98	6.69	9.75	5.13	7.62
22	7.29	0.66	3.74	8.80	1.77	5.16	9.89	4.25	6.93	9.25	4.70	7.07
23	7.99	0.99	4.14	9.09	2.30	5.43	9.50	3.37	6.71	9.22	4.53	6.93
24	8.44	1.22	4.55	8.69	1.74	5.31	10.11	3.62	6.60	9.38	4.58	7.03
25	8.07	0.59	4.22	9.44	2.09	5.92	9.34	3.56	6.50	9.45	4.88	7.35
26	7.72	0.21	3.97	8.98	2.10	5.65	8.76	3.35	6.20	8.85	4.93	6.94
27	7.81	0.13	3.97	8.95	2.46	5.83	9.30	3.64	6.73	8.74	4.75	6.84
28	7.67	0.09	3.99	8.55	2.44	5.90	8.84	4.12	6.80	8.74	4.65	6.62
29	6.89	-0.01	3.57	7.98	2.45	5.56	8.65	4.14	6.65	9.07	4.74	6.71
30	6.55	0.05	3.51	7.47	2.36	5.33	8.32	3.77	6.01	8.94	4.78	6.48
31	6.87	0.11	4.11	---	---	---	8.03	3.62	5.51	9.89	5.11	7.03
MONTH	8.44	-0.06	3.63	10.55	0.50	5.18	11.32	1.50	5.92	11.32	0.67	6.26

14247295 COLUMBIA RIVER AT WAUNA, OREG.--Continued

GAGE HEIGHT (FT.) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.40	4.58	6.75	9.36	3.52	6.27	8.66	3.73	6.37	8.40	3.64	5.62
2	9.08	4.00	6.30	9.20	3.29	6.16	8.59	3.85	6.31	8.41	3.63	5.71
3	9.40	3.86	6.41	8.52	2.81	5.68	8.52	3.92	6.30	8.59	3.63	5.76
4	9.98	3.60	6.56	9.12	2.81	5.83	8.62	4.08	6.92	8.66	3.37	5.79
5	9.41	3.19	6.20	9.33	2.95	6.14	9.60	4.32	6.95	9.00	3.36	6.04
6	9.58	2.95	6.14	9.50	2.88	6.12	10.04	4.06	7.37	9.27	3.46	6.26
7	9.16	2.55	5.87	9.52	2.94	7.25	9.77	3.34	6.34	9.36	3.55	6.38
8	9.02	2.60	5.69	9.08	2.70	5.99	9.76	3.32	6.43	9.11	3.56	6.29
9	8.71	2.37	5.59	9.61	3.09	6.25	9.91	4.26	7.10	8.88	3.71	6.28
10	9.10	2.34	5.36	9.83	2.93	6.20	8.99	2.97	5.88	8.51	3.61	6.11
11	8.83	2.41	5.33	9.46	2.17	5.67	8.96	3.16	5.88	8.44	3.79	6.15
12	9.63	2.68	5.73	9.26	2.68	5.82	7.73	2.96	5.37	7.35	3.15	5.52
13	8.69	2.77	5.40	9.17	2.60	5.54	6.86	2.68	4.92	6.50	2.80	4.91
14	8.91	2.47	5.16	7.65	2.22	4.90	6.35	2.77	4.84	7.02	3.01	5.07
15	7.68	2.22	5.01	7.86	2.89	5.27	6.23	2.55	4.69	7.13	2.89	4.81
16	8.17	2.35	5.43	7.46	3.05	5.22	6.28	2.21	4.30	7.45	2.90	4.76
17	7.73	1.77	4.88	6.65	2.38	4.71	7.21	2.70	4.59	7.82	2.92	4.82
18	8.40	2.38	5.48	6.32	2.27	4.44	7.25	2.83	4.90	7.92	2.67	4.98
19	8.51	2.53	5.72	6.59	2.20	4.55	7.42	2.86	5.01	8.21	2.53	5.16
20	8.13	2.70	5.38	6.90	2.29	4.64	8.13	2.91	5.31	8.50	2.40	5.28
21	9.00	2.99	6.01	7.24	2.33	4.78	8.31	2.66	5.35	9.02	2.30	5.47
22	8.37	2.76	5.79	7.65	2.37	5.05	8.81	2.55	5.61	9.35	2.32	5.69
23	7.82	2.84	5.39	7.82	2.48	5.11	9.18	2.52	5.71	9.61	2.41	5.92
24	8.56	3.09	5.58	8.32	2.29	5.19	9.41	2.74	5.88	9.70	2.42	6.01
25	8.74	2.83	5.63	8.61	2.10	5.72	9.25	2.26	5.62	9.12	2.52	5.86
26	9.37	2.86	5.94	10.12	2.71	6.00	8.79	2.16	5.43	8.41	2.46	5.57
27	9.20	3.19	5.78	9.74	2.84	6.20	8.49	2.68	5.53	7.57	2.43	5.22
28	10.04	3.47	6.42	10.22	3.75	6.69	7.84	2.80	5.37	7.72	2.52	5.00
29	---	---	---	9.16	3.27	6.18	7.38	2.92	5.23	7.97	3.00	5.06
30	---	---	---	9.17	3.41	6.11	7.75	3.13	5.34	8.34	3.25	5.16
31	---	---	---	8.28	3.24	5.94	---	---	---	8.59	3.34	5.44
MONTH	10.04	1.77	5.74	10.22	2.10	5.66	10.04	2.16	5.69	9.70	2.30	5.55

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.69	3.13	5.51	8.92	4.45	6.42	7.78	1.00	4.33	7.48	0.41	3.87
2	8.67	3.01	5.58	8.96	4.14	6.36	8.22	1.36	4.69	7.15	0.36	3.91
3	8.67	2.82	5.77	8.82	3.85	6.31	7.88	1.17	4.58	7.41	0.79	4.15
4	9.31	3.14	6.29	8.87	4.00	6.27	7.85	1.11	4.53	7.68	1.08	4.34
5	9.68	3.61	6.49	8.85	3.95	6.33	7.45	1.04	4.50	7.42	1.07	4.12
6	9.28	3.93	6.57	8.66	3.83	6.30	7.52	1.37	4.60	7.47	0.97	4.06
7	8.81	3.93	6.38	8.46	3.64	6.19	7.57	1.56	4.59	7.38	0.90	4.00
8	8.33	3.85	6.18	8.16	3.38	5.99	7.56	1.53	4.42	7.33	0.85	3.90
9	7.74	3.64	5.90	8.54	3.46	6.08	7.49	1.41	4.28	7.16	0.94	4.01
10	7.45	3.66	5.71	8.01	3.27	5.70	7.61	1.72	4.28	7.03	0.71	3.85
11	7.37	3.48	5.45	7.72	2.87	5.12	7.70	1.70	4.38	6.91	0.33	3.49
12	7.77	3.80	5.52	7.58	2.85	4.77	8.01	1.47	4.41	7.47	0.10	3.40
13	8.01	4.14	5.65	7.73	2.35	4.54	8.42	1.50	4.64	7.46	0.29	3.70
14	8.08	4.26	5.67	7.83	2.05	4.46	8.66	1.46	4.75	7.88	0.72	4.26
15	8.50	4.15	5.81	8.15	1.46	4.37	8.76	1.15	4.76	7.98	0.56	4.13
16	8.94	4.09	6.10	9.02	1.20	4.62	8.99	1.23	4.93	8.03	0.32	4.03
17	9.32	4.52	6.54	9.25	1.44	5.09	9.23	1.38	5.07	8.18	0.50	4.18
18	9.64	4.85	7.13	9.31	1.27	5.08	9.06	1.12	5.00	8.22	0.54	4.23
19	10.39	5.40	7.69	9.59	1.50	5.25	8.75	0.27	4.76	7.90	0.47	4.21
20	10.70	5.60	7.88	9.27	1.43	5.27	8.05	0.88	4.50	8.05	0.46	4.36
21	10.84	5.66	8.16	9.06	1.57	5.38	7.94	0.73	4.27	7.65	0.75	4.09
22	10.78	5.65	8.07	8.76	1.93	5.46	7.70	0.84	4.06	7.03	0.51	3.77
23	10.10	5.59	7.83	8.51	1.77	5.18	7.33	0.71	3.86	6.27	0.55	3.56
24	9.42	5.49	7.57	8.20	1.62	4.71	6.91	0.65	3.67	6.37	0.64	3.55
25	9.35	5.29	7.33	8.05	1.89	4.57	6.56	0.59	3.45	6.11	0.86	3.63
26	9.59	5.40	7.18	7.96	1.75	4.41	6.65	0.20	3.24	6.19	0.71	3.56
27	9.42	5.68	7.17	7.53	1.63	4.22	6.62	0.35	3.42	6.05	0.55	3.46
28	9.33	5.55	6.99	7.36	1.13	3.98	6.89	0.55	3.66	6.39	0.50	3.43
29	9.28	5.39	6.89	7.53	0.98	4.10	7.46	0.75	3.99	6.43	0.30	3.34
30	9.26	4.93	6.64	7.53	1.03	4.23	7.39	0.83	4.06	7.09	0.70	3.71
31	---	---	---	7.76	1.01	4.26	7.35	0.60	3.93	---	---	---
MONTH	10.84	2.82	6.58	9.59	0.98	5.19	9.23	0.20	4.31	8.22	0.10	3.87
YEAR	11.32	-0.06	5.29									

14248700 BEAR CREEK NEAR SVENSEN, OREG.

LOCATION.--Lat 46°06'48", long 123°37'55", in NE¼NE¼ sec.11, T.7 N., R.8 W., Clatsop County, on right bank 0.5 mi (0.8 km) upstream from the Astoria Reservoir Dam, 3.8 mi (6.1 km) southeast of Svensen, and at mile 5.4 (8.7 km).

DRAINAGE AREA.--3.33 mi^2 (8.62 km^2).

PERIOD OF RECORD.--August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 18.1 ft^3/s (0.51 m^3/s), 73.81 in/yr (1,875 mm/yr), 13,110 acre-ft/yr (16.2 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 131 ft^3/s (3.71 m^3/s) Jan. 27, gage height, 2.73 ft (0.832 m); minimum, 3.6 ft^3/s (0.102 m^3/s) Oct. 1, 2.

Period of record: Maximum discharge, 342 ft^3/s (9.69 m^3/s) Jan. 11, 1972, gage height, 3.42 ft (1.042 m); minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 8, 9, 1967.

REMARKS.--Records good. Flow regulated by Wickiup Lake and Middle Lake. No diversions above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	13	36	43	97	46	32	19	13	9.6	6.8	4.9
2	5.5	10	36	38	75	44	49	18	13	9.2	6.5	4.9
3	8.8	9.6	43	32	61	37	41	17	13	8.8	6.5	4.9
4	8.8	10	40	28	60	44	37	17	21	8.8	6.5	5.2
5	8.8	9.6	34	24	52	95	34	16	34	8.8	6.5	5.2
6	15	10	31	22	45	63	35	16	26	8.8	6.2	4.9
7	11	10	38	20	41	45	33	15	24	8.3	6.2	4.9
8	7.6	12	31	19	37	37	31	15	21	9.6	6.2	4.9
9	4.9	42	28	17	33	38	31	16	19	11	6.2	5.5
10	4.7	24	25	16	30	40	30	16	17	10	6.2	5.2
11	4.7	40	29	15	28	38	51	17	17	9.2	6.2	5.2
12	4.7	38	56	21	27	40	39	17	15	8.8	6.2	4.9
13	5.2	47	60	32	26	40	34	16	15	8.3	5.8	4.9
14	5.2	41	53	48	26	36	30	20	15	8.3	5.8	4.9
15	4.9	54	54	95	25	34	28	24	14	8.3	5.8	4.9
16	4.7	49	54	97	28	35	27	23	14	8.3	5.8	4.9
17	4.7	35	51	67	28	34	25	21	14	12	5.8	4.9
18	4.7	27	41	69	29	30	24	19	13	10	5.8	4.9
19	4.7	23	37	67	41	28	24	19	12	9.2	6.2	4.9
20	5.2	45	41	54	38	25	24	17	11	8.8	5.8	4.9
21	5.2	49	35	51	32	23	22	16	10	8.3	5.8	4.9
22	4.9	40	33	58	29	21	21	16	11	8.3	5.8	4.9
23	5.8	41	34	81	27	20	21	15	10	8.3	5.8	4.9
24	7.2	38	54	63	25	19	21	17	10	8.0	5.5	5.2
25	7.6	47	53	70	28	18	21	17	10	8.0	5.5	5.2
26	6.5	51	48	66	33	17	20	15	10	7.6	5.2	5.2
27	6.2	49	77	100	31	18	20	15	10	7.6	5.2	5.2
28	8.3	70	69	88	48	30	20	15	9.6	7.2	5.2	5.2
29	7.2	53	69	74	------	25	19	14	9.2	7.2	5.2	5.2
30	7.6	41	54	91	------	26	19	14	9.2	7.2	4.9	6.5
31	17	------	49	108	------	27	------	14	------	6.8	4.9	------
TOTAL	211.2	1,028.2	1,393	1,674	1,080	1,073	863	526	440.0	268.6	182.0	152.2
MEAN	6.81	34.3	44.9	54.0	38.6	34.6	28.8	17.0	14.7	8.66	5.87	5.07
MAX	17	70	77	108	97	95	51	24	34	12	6.8	6.5
MIN	3.9	9.6	25	15	25	17	19	14	9.2	6.8	4.9	4.9
CFSM	2.05	10.3	13.5	16.2	11.6	10.4	8.65	5.11	4.41	2.60	1.76	1.52
IN.	2.36	11.49	15.56	18.70	12.06	11.99	9.64	5.88	4.92	3.00	2.03	1.70
AC-FT	419	2,040	2,760	3,320	2,140	2,130	1,710	1,040	873	533	361	302

CAL YR 1973 TOTAL 5,651.7 MEAN 15.5 MAX 77 MIN 3.4 CFSM 4.65 IN 63.14 AC-FT 11,210
WTR YR 1974 TOTAL 8,891.2 MEAN 24.4 MAX 108 MIN 3.9 CFSM 7.33 IN 99.33 AC-FT 17,640

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-27	1730	2.60	102	1-31	0700	2.71	126
1-16	1000	2.64	110	3- 5	1000	2.68	119
1-27	1530	2.73	131				

NEHALEM RIVER BASIN

14301000 NEHALEM RIVER NEAR FOSS, OREG.

LOCATION.--Lat 45°42'15", long 123°45'15", in NW¼ sec.35, T.3 N., R.9 W., Tillamook County, on right bank 0.2 mi (0.3 km) upstream from Cook Creek, 2.2 mi (3.5 km) northeast of Foss, and at mile 13.5 (21.7 km).

DRAINAGE AREA.--667 mi² (1,728 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) above mean sea level (State Highway Department bench mark). Prior to Nov. 11, 1939, nonrecording gage.

AVERAGE DISCHARGE.--35 years, 2,787 ft³/s (78.9 m³/s), 56.74 in/yr (1,441 mm/yr), 2,019,000 acre-ft/yr (2.49 km³/yr).

EXTREMES.--Current year: Maximum discharge, 39,400 ft³/s (1,116 m³/s) Jan. 16, gage height, 20.98 ft (6.395 m); minimum, 70 ft³/s (1.98 m³/s) Sept. 27-30.

Period of record: Maximum discharge, 46,900 ft³/s (1,328 m³/s) Jan. 20, 1972, gage height, 23.11 ft (7.044 m); minimum, 34 ft³/s (0.96 m³/s) Aug. 29-31, 1967.

REMARKS.--Records good. No regulation. Several small diversions for irrigation and domestic use above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	4,410	8,380	7,560	17,000	11,600	8,070	1,060	766	360	190	114
2	280	3,300	6,750	6,030	14,900	11,600	10,300	1,090	717	351	180	112
3	256	2,320	6,120	4,890	11,000	10,300	11,500	1,030	688	342	175	109
4	234	1,930	5,950	4,050	9,120	8,810	9,960	966	937	333	170	109
5	234	1,720	5,340	3,390	7,920	11,600	8,880	907	1,690	328	165	112
6	527	1,650	4,800	2,830	6,710	12,200	8,400	860	1,550	319	160	112
7	521	1,870	5,790	2,390	5,640	10,000	7,640	807	1,380	311	160	109
8	1,150	2,120	5,900	2,160	4,690	7,640	6,480	756	1,230	315	160	112
9	820	11,400	5,110	1,910	3,940	6,310	5,580	756	1,100	440	155	132
10	631	10,300	4,430	1,750	3,360	6,580	4,920	828	1,010	516	150	135
11	539	12,400	4,360	1,590	2,910	6,940	5,570	871	922	417	150	129
12	485	11,800	8,510	1,810	2,660	6,540	5,730	951	828	342	150	123
13	485	12,400	12,700	5,550	2,590	6,970	4,990	989	737	324	150	112
14	515	12,800	14,600	10,700	3,440	7,040	4,250	1,360	670	315	150	106
15	485	16,900	16,000	30,600	3,640	7,180	3,610	1,780	631	496	155	101
16	455	19,000	16,800	37,800	5,640	7,510	3,100	1,960	612	616	154	98
17	425	16,200	15,100	35,600	6,550	7,260	2,690	1,800	594	529	151	95
18	392	10,200	12,400	26,500	6,760	6,250	2,380	1,640	568	452	151	90
19	370	6,670	9,520	19,200	8,770	5,310	2,140	1,530	542	393	154	90
20	370	6,960	9,950	14,300	9,080	4,480	1,960	1,420	503	355	164	85
21	392	9,350	10,200	10,200	8,070	3,770	1,780	1,320	471	333	160	81
22	381	9,860	9,080	8,020	6,850	3,210	1,620	1,210	452	311	157	79
23	409	8,710	8,850	8,140	5,880	2,800	1,510	1,150	434	293	160	77
24	659	8,810	9,430	7,430	5,130	2,460	1,430	1,160	417	270	164	74
25	1,140	10,100	11,200	8,120	5,210	2,280	1,410	1,240	417	260	154	72
26	1,050	10,600	9,860	9,700	6,480	2,230	1,320	1,180	452	250	144	72
27	925	11,200	13,300	11,200	7,700	2,410	1,260	1,060	452	240	135	70
28	994	16,500	16,700	12,500	10,300	7,160	1,210	989	446	230	129	70
29	1,140	14,700	15,300	10,800	------	9,150	1,150	929	407	220	123	70
30	1,050	11,500	12,100	10,100	------	8,280	1,080	893	379	210	117	70
31	2,820	------	9,610	13,700	------	7,540	------	839	------	200	114	------
TOTAL	20,439	277,680	304,140	330,520	191,940	213,410	131,920	35,331	22,002	10,671	4,751	2,920
MEAN	659	9,256	9,811	10,660	6,855	6,884	4,397	1,140	733	344	153	97.3
MAX	2,820	19,000	16,800	37,800	17,000	12,200	11,500	1,960	1,690	616	190	135
MIN	234	1,650	4,360	1,590	2,590	2,230	1,080	756	379	200	114	70
CFSM	.99	13.9	14.7	16.0	10.3	10.3	6.59	1.71	1.10	.52	.23	.15
IN.	1.14	15.49	16.94	18.43	10.70	11.90	7.36	1.97	1.23	.60	.26	.16
AC-FT	40,540	550,800	603,300	655,600	380,700	423,300	261,700	70,080	43,640	21,170	9,420	5,790

CAL YR 1973 TOTAL 979,710 MEAN 2,684 MAX 19,000 MIN 67 CFSM 4.02 IN 54.64 AC-FT 1,943,000
WTR YR 1974 TOTAL 1,545,724 MEAN 4,235 MAX 37,800 MIN 70 CFSM 6.35 IN 86.21 AC-FT 3,066,000

PEAK DISCHARGE (BASE, 19,000 CFS).--Nov. 16 (1230) 20,200 cfs (14.48 ft); Jan. 16 (1800) 39,400 cfs (20.98 ft).

14301500 WILSON RIVER NEAR TILLAMOOK, OREG.

LOCATION.--Lat 45°29'05", long 123°41'20", in SW¼SE¼ sec.8, T.1 S., R.8 W., Tillamook County, on right bank 0.2 mi (0.3 km) upstream from Negro Jack Creek, 8.0 mi (12.9 km) east of Tillamook, and at mile 11.4 (18.3 km).

DRAINAGE AREA.--161 mi² (417 km²), at cableway, 2.0 mi (3.2 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.--October 1914 to September 1915, August to November 1916, July 1931 to current year. Prior to January 1915 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 71.89 ft (21.912 m) above mean sea level. Dec. 18, 1914, to Nov. 4, 1916, nonrecording gage at site 2.8 mi (4.5 km) downstream at different datum. July 30, 1931, to Sept. 30, 1938, nonrecording gage at site 2.82 mi (4.54 km) downstream at datum 28.83 ft (8.787 m) lower. Oct. 1, 1938, to Oct. 17, 1968, water-stage recorder at site 2.1 mi (3.4 km) downstream at datum 29.76 ft (9.071 m) lower.

AVERAGE DISCHARGE.--44 years (1914-15, 1931-74), 1,227 ft³/s (34.7 m³/s), 103.49 in/yr (2,629 mm/yr), 889,000 acre-ft/yr (1.10 km³/yr).

EXTREMES.--Current year: Maximum discharge, 20,600 ft³/s (583 m³/s) Jan. 15, gage height, 15.22 ft (4.639 m); minimum, 62 ft³/s (1.76 m³/s) Sept. 25.

Period of record: Maximum discharge, 36,000 ft³/s (1,020 m³/s) Jan. 20, 1972, gage height, 16.91 ft (5.154 m); maximum gage height, 20.26 ft (6.175 m) Dec. 22, 1964 (site and datum then in use); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 5, 1973, but may have been less for short period following a landslide Jan. 31, 1965.

Flood in February 1916 reached a stage of 20.8 ft (6.34 m), from floodmarks, site and datum then in use.

REMARKS.--Records good. No regulation. Small diversions for domestic use above station.

REVISIONS (WATER YEARS).--WSP 1398: 1953. WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	3,040	2,500	2,070	7,020	3,370	3,310	537	449	210	147	88
2	181	1,710	2,010	1,600	4,780	3,430	4,710	585	426	208	141	84
3	169	1,200	2,050	1,350	3,400	2,760	4,520	526	416	199	138	81
4	158	1,040	1,930	1,140	3,420	2,570	3,420	496	703	191	134	85
5	155	853	1,650	993	3,020	5,370	3,050	470	1,090	186	131	85
6	385	796	1,480	862	2,400	4,850	3,030	460	988	181	127	83
7	607	839	2,780	767	2,000	3,080	2,920	443	858	176	125	81
8	422	921	2,310	696	1,730	2,290	2,460	419	753	186	124	80
9	344	7,570	1,720	658	1,510	1,980	2,180	436	671	242	122	107
10	300	4,730	1,380	636	1,340	2,390	1,920	463	602	308	117	103
11	273	5,680	1,470	579	1,190	2,940	2,300	577	545	255	116	91
12	259	4,840	3,210	907	1,110	2,570	2,260	610	496	225	115	84
13	313	4,880	4,600	4,580	1,120	2,420	1,890	561	460	204	115	79
14	359	4,630	4,640	7,950	1,960	2,220	1,620	947	429	186	116	77
15	325	8,080	6,640	17,900	1,950	2,840	1,420	1,190	409	184	114	75
16	302	7,700	8,610	18,000	2,970	3,780	1,260	1,280	381	191	111	75
17	277	4,510	6,660	9,000	2,830	3,540	1,130	1,150	353	627	108	73
18	257	2,760	4,380	6,110	3,110	2,550	1,030	1,020	333	716	109	73
19	241	1,950	3,020	5,890	4,550	2,040	967	912	316	481	113	70
20	245	2,600	4,160	3,730	3,460	1,720	927	812	303	371	114	69
21	271	3,370	4,040	2,730	2,660	1,490	854	735	290	314	110	68
22	261	2,930	3,130	2,300	2,160	1,360	802	675	279	277	107	66
23	293	2,820	3,930	2,460	1,810	1,220	758	636	269	252	108	66
24	562	3,120	4,540	2,400	1,600	1,110	707	731	255	231	104	64
25	898	4,300	4,960	2,970	1,900	1,080	657	766	262	216	100	63
26	731	3,890	3,420	3,300	2,270	1,210	623	721	274	201	97	64
27	582	4,730	6,640	3,480	2,210	1,420	589	662	279	188	92	64
28	636	8,840	7,270	3,850	3,080	3,920	557	606	250	177	91	64
29	636	5,660	4,970	3,290	------	3,730	537	561	231	169	90	64
30	575	3,420	3,510	3,640	------	2,880	526	522	218	161	88	65
31	2,690	------	2,700	5,990	------	2,430	------	485	------	154	89	------
TOTAL	13,904	113,409	116,310	121,828	72,560	80,560	52,954	20,994	13,588	7,867	3,513	2,291
MEAN	449	3,780	3,752	3,930	2,591	2,599	1,765	677	453	254	113	76.4
MAX	2,690	8,840	8,610	18,000	7,020	5,370	4,710	1,280	1,090	716	147	107
MIN	155	796	1,380	579	1,110	1,080	526	419	218	154	88	63
CFSM	2.79	23.5	23.3	24.4	16.1	16.1	11.0	4.21	2.81	1.58	.70	.47
IN.	3.21	26.20	26.87	28.15	16.77	18.61	12.24	4.85	3.14	1.82	.81	.53
AC-FT	27,580	224,900	230,700	241,600	143,900	159,800	105,000	41,640	26,950	15,600	6,970	4,540

CAL YR 1973 TOTAL 426,457 MEAN 1,168 MAX 9,120 MIN 36 CFSM 7.25 IN 98.54 AC-FT 845,900
WTR YR 1974 TOTAL 619,778 MEAN 1,698 MAX 18,000 MIN 63 CFSM 10.5 IN 143.20 AC-FT 1,229,000

PEAK DISCHARGE (BASE, 12,000 CFS).--Jan. 15 (1400) 20,600 cfs (15.22 ft).

NOTE.--No gage-height record Jan. 15-18.

14302800 MCGUIRE LAKE NEAR FAIRDALE, OREG.

LOCATION.--Lat 45°18'30", long 123°24'30", in NW¼SE¼ sec.15, T.3 S., R.6 W., Yamhill County, on control tower in reservoir on Nestucca River, 0.3 mi (0.5 km) upstream from Walker Creek, and 5.0 mi (8.0 km) southwest of Fairdale.

DRAINAGE AREA.--2.85 mi^2 (7.38 km^2).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents observed, 3,890 acre-ft (4.80 hm^3) Feb. 19, Mar. 28, elevation, 1,865.8 ft (568.70 m); minimum observed, reservoir empty Oct. 20 to Dec. 17.

Period of record: Maximum contents observed, 3,890 acre-ft (4.80 hm^3) Mar. 12, 1972, Feb. 19, Mar. 28, 1974,elevation, 1,865.8 ft (568.70 m); no contents most of time during winter months.

REMARKS.--Reservoir is formed by earthfill dam with ungated spillway. Capacity of reservoir is 3,840 acre-ft (4.73 hm^3) between elevations 1,810.0 ft (551.69 m) and 1,865.5 ft (568.60 m). Dead storage negligible. Under normal operation, reservoir is filled in the spring (April or May) and drained when fall rains start. There is no planned storage during winter months; however, during periods of heavy runoff, inflow may be greater than capacity of outlet tunnel and there may be temporary storage. Water is used during summer months for municipal supply of city of McMinnville.

COOPERATION.--Elevation and capacity table furnished by city of McMinnville, Water and Light Department.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	1,834.4	844	-
Oct. 31	-	0	-844
Nov. 30	-	0	0
Dec. 31	1,848.5	1,880	+1,880
CAL YR 1973	-	-	+1,880
Jan. 31	1,865.5	3,850	+1,970
Feb. 28	1,865.6	3,860	+10
Mar. 31	1,865.6	3,860	0
Apr. 30	1,865.1	3,780	-80
May 31	1,865.0	3,770	-10
June 30	1,864.1	3,640	-130
July 31	1,861.9	3,340	-300
Aug. 31	1,853.4	2,350	-990
Sept.30	1,843.0	1,420	-930
WTR YR 1974	-	-	+576

14302900 NESTUCCA RIVER NEAR FAIRDALE, OREG.

LOCATION.--Lat 45°18'40", long 123°25'05", in SW¼SW¼ sec.15, T.3 S., R.6 W., Yamhill County, on right bank 100 ft (30 m) upstream from former Meadow Lake, 0.4 mi (0.6 km) downstream from Walker Creek, 5.3 mi (8.5 km) southwest of Fairdale, and at mile 49.3 (79.3 km).

DRAINAGE AREA.--6.18 mi^2 (16.01 km^2).

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,778.99 ft (542.236 m) above mean sea level (levels by city of McMinnville).

AVERAGE DISCHARGE.--14 years, 34.3 ft^3/s (0.97 m^3/s), 75.37 in/yr (1,914 mm/yr), 24,850 acre-ft/yr (30.6 hm^3/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 642 ft^3/s (18.2 m^3/s) Nov. 15, gage height, 6.27 ft (1.911 m); minimum, 4.0 ft^3/s (0.113 m^3/s) Oct. 23.
Period of record: Maximum discharge, 876 ft^3/s (24.8 m^3/s) Dec. 22, 1964, gage height, 10.43 ft (3.179 m); minimum, 0.87 ft^3/s (0.025 m^3/s) July 17, 1968.

REMARKS.--Records good. Flow regulated since March 1969 by McGuire Lake about 1 mi (1.6 km) above station (see station 14302800); during winter months lake is empty except when inflow exceeds capacity of outlet tunnel.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	53	81	19	210	117	95	15	11	8.8	7.2	6.2
2	28	25	62	17	140	112	110	16	9.8	9.0	7.2	6.2
3	31	15	55	14	103	88	100	14	11	8.8	7.2	12
4	33	12	37	12	104	83	90	13	18	8.1	7.2	17
5	33	8.5	33	11	84	150	80	13	17	7.6	7.2	17
6	47	8.8	29	9.5	71	138	70	13	15	7.6	7.2	17
7	40	10	59	8.5	61	80	65	12	14	7.9	7.4	17
8	35	23	47	8.0	52	80	55	12	13	9.3	7.6	16
9	33	233	35	7.0	45	70	50	12	12	12	7.4	13
10	30	152	25	6.5	40	65	48	15	11	11	7.0	7.6
11	28	176	35	6.0	37	70	60	15	11	9.3	6.6	7.6
12	25	154	86	6.0	37	70	55	14	11	8.8	6.8	7.4
13	23	172	126	6.0	37	75	48	13	10	8.5	6.8	7.4
14	20	155	149	21	56	75	42	19	11	8.1	6.8	7.4
15	18	422	163	216	70	80	37	23	9.8	8.3	6.8	7.4
16	16	297	188	327	112	95	34	26	9.5	8.3	6.6	7.2
17	13	149	162	140	107	100	30	26	9.5	10	6.4	7.2
18	8.8	110	85	120	125	80	28	28	9.3	9.0	6.4	8.1
19	6.5	89	35	113	150	70	26	25	9.3	8.5	6.6	9.3
20	5.1	116	63	104	114	60	25	23	9.0	8.1	6.6	8.8
21	5.3	125	58	88	89	50	23	20	9.0	7.9	6.4	8.5
22	4.4	103	48	77	74	46	21	18	9.0	7.9	6.4	8.5
23	9.3	96	47	74	58	40	20	18	9.0	7.6	6.4	8.8
24	23	93	47	71	49	36	19	19	8.8	7.6	6.4	8.8
25	20	110	41	81	63	36	19	18	9.5	7.6	6.4	8.8
26	12	100	29	87	79	40	18	16	9.8	7.6	6.2	8.8
27	9.6	110	62	94	73	55	18	15	9.8	7.4	6.2	8.8
28	14	183	73	95	115	130	17	13	9.0	7.4	6.2	8.8
29	11	141	56	87	------	110	16	13	8.8	7.4	6.1	8.8
30	9.0	105	37	91	------	100	15	12	8.5	7.4	6.2	9.0
31	65	------	26	186	------	90	------	12	------	7.2	6.2	------
TOTAL	679.0	3,546.3	2,079	2,202.5	2,355	2,491	1,334	521	322.4	260.0	208.1	294.4
MEAN	21.9	118	67.1	71.0	84.1	80.4	44.5	16.8	10.7	8.39	6.71	9.81
MAX	65	422	188	327	210	150	110	28	18	12	7.6	17
MIN	4.4	8.5	25	6.0	37	36	15	12	8.5	7.2	6.1	6.2
AC-FT	1,350	7,030	4,120	4,370	4,670	4,940	2,650	1,030	639	516	413	584
MEAN†	8.23	118	97.6	103	84.2	80.4	43.2	16.6	8.55	5.06	1.90	1.29
CFSM†	1.33	19.1	15.8	16.7	13.6	13.0	6.99	2.69	1.38	.82	.31	.21
IN.†	1.54	21.33	18.21	19.24	14.20	14.99	7.80	3.10	1.54	.94	.36	.23
AC-FT†	506	7,030	6,000	6,340	4,680	4,940	2,570	1,020	509	311	117	77

CAL YR 1973 TOTAL 10,434.7 MEAN 28.6 MAX 422 MIN 2.4 AC-FT 20,700 MEAN† 32.7 CFSM† 5.29 IN.† 71.83 AC-FT† 23,670
WTR YR 1974 TOTAL 16,292.7 MEAN 44.6 MAX 422 MIN 4.4 AC-FT 32,320 MEAN† 47.1 CFSM† 7.62 IN.† 103.51 AC-FT† 34,108

† Adjusted for storage and diversion by McGuire Lake.

NOTE.--No gage-height record Mar. 7 to Apr. 24.

14303600 NESTUCCA RIVER NEAR BEAVER, OREG.

LOCATION.--Lat 45°16'00", long 123°50'45", in SE¼SE¼ sec.36, T.3 S., R.10 W., Tillamook County, on right bank 150 ft (46 m) upstream from Saling Creek, 1.2 mi (1.9 km) southwest of Beaver, and at mile 13.5 (21.7 km).

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 43 ft (13 m), from river profile map.

AVERAGE DISCHARGE.--10 years, 1,174 ft³/s (33.2 m³/s), 88.57 in/yr (2,250 mm/yr), 850,600 acre-ft/yr (1.05 km³/yr).

EXTREMES.--Current year: Maximum discharge, 13,300 ft³/s (377 m³/s) Jan. 16, gage height, 13.45 ft (4.100 m); minimum, 70 ft³/s (1.98 m³/s) Sept. 24-26.

Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Jan. 11, 1972, gage height, 22.0 ft (6.71 m), from floodmark; minimum, 32 ft³/s (0.91 m³/s) Sept. 14, 1967.

Flood of Nov. 20, 1962, reached a stage of 23.4 ft (7.13 m), discharge, 32,500 ft³/s (920 m³/s), caused by failure of Meadow Lake Dam.

REMARKS.--Records excellent. No regulation. Small diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	2,470	2,660	2,220	5,850	4,650	2,810	559	495	275	185	102
2	121	1,800	2,070	1,760	4,500	4,930	3,190	593	477	270	181	95
3	123	1,380	1,900	1,450	3,460	3,820	3,170	534	465	261	177	91
4	123	1,310	1,580	1,240	3,540	3,540	2,410	514	679	252	174	95
5	121	1,120	1,400	1,060	3,190	6,690	2,620	489	920	248	165	102
6	121	1,060	1,270	934	2,710	6,560	2,390	471	809	239	160	102
7	121	1,040	2,040	837	2,240	4,090	2,160	460	757	230	160	96
8	118	1,260	1,890	753	1,880	2,940	1,420	443	695	252	155	98
9	116	6,080	1,600	694	1,620	2,320	2,030	454	642	326	151	146
10	408	4,340	1,340	650	1,410	2,140	2,000	426	607	372	142	133
11	379	4,880	1,350	602	1,250	2,180	2,750	614	565	300	142	102
12	360	4,770	2,350	781	1,230	2,260	2,730	621	533	266	137	95
13	365	5,430	4,020	1,710	1,180	2,390	2,210	579	508	248	137	88
14	369	5,040	4,480	3,180	1,520	2,470	1,660	695	489	235	137	81
15	329	8,670	4,730	12,600	1,620	2,700	1,610	863	465	239	133	81
16	311	9,340	5,690	12,400	2,590	2,980	1,400	1,130	448	243	129	91
17	288	6,300	5,670	7,960	2,970	2,960	1,240	1,060	426	657	125	81
18	271	3,420	4,110	5,720	3,280	2,480	1,110	1,010	409	572	125	77
19	255	2,460	2,980	5,320	4,870	2,070	1,020	936	396	448	133	77
20	263	3,160	3,400	3,950	3,980	1,770	979	855	378	378	142	77
21	306	4,120	3,270	3,020	3,230	1,560	887	787	366	332	133	77
22	280	3,830	3,150	2,720	2,650	1,390	832	742	354	305	121	74
23	324	3,570	3,520	3,060	2,160	1,240	787	695	343	290	125	74
24	523	3,690	3,990	2,910	1,960	1,120	750	765	326	270	121	74
25	650	4,570	4,290	3,220	2,040	1,090	702	742	343	257	113	70
26	572	4,660	3,290	3,580	2,830	1,040	684	679	360	243	109	74
27	500	4,840	5,420	4,240	2,860	1,140	642	635	360	230	102	74
28	614	6,360	6,310	4,450	4,250	2,520	621	600	321	222	102	77
29	591	5,300	4,910	3,750	------	2,600	586	572	295	214	98	77
30	547	3,340	3,700	3,560	------	2,410	559	546	275	206	98	74
31	2,520	------	2,960	5,010	------	2,350	------	520	------	193	102	------
TOTAL	12,228	119,450	101,340	105,361	76,770	84,390	49,139	20,694	14,506	9,073	4,214	2,647
MEAN	394	3,982	3,269	3,399	2,742	2,722	1,638	668	484	293	136	88.2
MAX	2,520	9,340	6,310	12,600	5,850	6,690	3,190	1,130	920	657	185	146
MIN	116	1,040	1,270	602	1,180	1,040	559	443	275	193	98	70
CFSM	2.19	22.1	18.2	18.9	15.2	15.1	9.10	3.71	2.69	1.63	.76	.49
IN.	2.53	24.69	20.96	21.77	15.87	17.44	10.16	4.28	3.00	1.88	.87	.55
AC-FT	24,250	236,900	201,000	209,000	152,300	167,400	97,470	41,050	28,770	18,000	8,360	5,250

CAL YR 1973 TOTAL 396,734 MEAN 1,087 MAX 9,340 MIN 72 CFSM 6.04 IN 81.99 AC-FT 786,900
WTR YR 1974 TOTAL 599,812 MEAN 1,643 MAX 12,600 MIN 70 CFSM 9.13 IN 123.96 AC-FT 1,190,000

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-16	0200	12.29	11,300	3- 5	1800	10.60	8,670
1-16	1230	13.45	13,300				

14305500 SILETZ RIVER AT SILETZ, OREG.

LOCATION.--Lat 44°42'55", long 123°53'10", in NW¼SW¼ sec.11, T.10 S., R.10 W., Lincoln County, on right bank, 1.8 mi (2.9 km) downstream from Baker Creek, 1.5 mi (2.4 km) east of Siletz, and at mile 42.6 (68.5 km).

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--October 1905 to November 1911, January to May 1912, January to June 1924, November 1924 to current year. Prior to December 1905 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 102.32 ft (31.187 m) above mean sea level. Oct. 1, 1905, to Sept. 30, 1938, nonrecording gages at various sites within 2.5 mi (4.0 km) downstream at different datums.

AVERAGE DISCHARGE.--55 years (1905-11, 1925-74), 1,592 ft³/s (45.1 m³/s), 107.03 in/yr (2,719 mm/yr), 1,153,000 acre-ft/yr (1.42 km³/yr).

EXTREMES.--Current year: Maximum discharge, 20,900 ft³/s (592 m³/s) Jan. 16, gage height, 19.27 ft (5.873 m); minimum, 90 ft³/s (2.55 m³/s) Sept. 27-30.

Period of record: 1905-12, 1924-38. Maximum discharge, 34,600 ft³/s (980 m³/s) Nov. 22, 1909, gage height, 24.6 ft (7.50 m), site and datum then in use; minimum observed, 51 ft³/s (1.44 m³/s) Dec. 6, 7, 1929.

Period of record: 1938-74. Maximum discharge, 32,200 ft³/s (912 m³/s) Jan. 28, 1965, gage height, 27.32 ft (8.327 m), present site and datum; minimum, 48 ft³/s (1.36 m³/s) Sept. 25, 26, Oct. 4, 1965, Sept. 28, 29, 1967.

Flood of Nov. 20, 1921, reached a stage of 31.6 ft (9.63 m), at site 2.5 mi (4.0 km) downstream at different datum, from floodmark, discharge, 40,800 ft³/s (1,160 m³/s), from rating curve extended above 17,000 ft³/s (481 m³/s).

REMARKS.--Records excellent. Slight regulation from logponds. Small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1935: 1943, 1947-49(M), 1953-58(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	5,420	3,770	3,290	7,570	6,310	4,220	598	526	266	248	136
2	277	2,830	3,170	2,660	5,550	6,230	4,540	621	494	266	238	134
3	255	1,960	3,850	2,140	4,130	4,670	4,400	564	469	255	231	129
4	234	1,950	2,780	1,850	4,560	4,490	3,830	505	808	245	224	127
5	218	1,780	2,470	1,570	3,910	8,050	3,360	479	1,710	245	218	127
6	374	1,600	2,330	1,370	3,280	7,980	3,250	460	1,420	234	211	123
7	537	1,490	5,140	1,240	2,660	5,000	3,530	446	1,210	228	205	121
8	382	1,890	4,480	1,100	2,220	3,520	3,070	427	1,030	262	202	119
9	347	11,200	3,300	993	1,890	2,730	3,140	418	907	422	196	140
10	309	6,950	2,610	843	1,640	2,480	3,100	469	808	581	190	154
11	243	7,490	2,280	833	1,440	2,760	4,050	616	733	391	184	132
12	297	7,290	3,130	1,300	1,420	2,870	4,080	627	668	339	178	121
13	277	7,800	5,550	4,680	1,370	3,050	3,190	559	621	305	178	113
14	281	7,050	6,080	7,600	1,990	3,770	2,580	827	581	281	178	107
15	262	15,900	7,210	14,600	2,260	5,520	2,120	1,000	542	269	176	107
16	255	15,400	9,930	18,000	4,460	5,240	1,790	1,230	510	273	170	107
17	245	7,640	9,330	12,400	4,850	4,320	1,540	1,300	474	900	164	107
18	234	4,550	6,480	7,840	5,850	3,270	1,360	1,230	446	1,040	162	103
19	228	3,250	4,690	7,290	9,580	2,670	1,240	1,100	427	770	164	101
20	245	3,860	5,960	5,070	6,080	2,230	1,220	1,000	409	610	173	99
21	409	5,010	7,440	3,700	4,490	1,900	1,080	887	387	510	167	98
22	378	4,950	6,420	3,160	3,530	1,660	1,000	814	369	450	159	98
23	427	4,480	6,800	3,130	2,910	1,440	943	752	361	413	157	96
24	752	4,740	6,050	3,200	2,490	1,310	880	853	339	382	154	94
25	421	5,760	6,220	3,290	2,780	1,300	814	866	352	356	147	91
26	758	5,700	4,720	3,820	3,520	1,410	758	795	374	334	143	91
27	668	6,760	7,680	4,330	3,830	1,540	721	740	395	313	138	90
28	770	10,500	9,100	5,120	6,160	4,390	686	686	347	297	136	90
29	746	7,460	6,830	4,520	-------	4,360	645	645	305	285	136	90
30	668	4,920	5,450	4,490	-------	4,250	621	604	277	273	136	90
31	5,270	-------	4,280	6,430	-------	4,010	-------	564	-------	259	136	-------
TOTAL	17,618	177,680	164,920	141,959	106,360	114,750	67,758	22,682	18,299	12,054	5,499	3,335
MEAN	568	5,923	5,320	4,579	3,798	3,702	2,259	732	610	389	177	111
MAX	5,270	15,900	9,930	18,000	9,580	8,050	4,540	1,300	1,710	1,040	248	154
MIN	218	1,490	2,280	833	1,370	1,300	621	418	277	228	136	90
CFSM	2.81	29.3	26.3	22.7	18.8	18.3	11.2	3.62	3.02	1.93	.88	.55
IN.	3.24	32.72	30.37	26.14	19.58	21.13	12.48	4.18	3.37	2.22	1.01	.61
AC-FT	34,950	352,400	327,100	281,600	210,900	227,600	134,400	44,990	36,300	23,910	10,910	6,610

CAL YR 1973 TOTAL 851,838 MEAN 2,334 MAX 18,000 MIN 90 CFSM 11.6 IN 156.87 AC-FT 1,690,000
WTR YR 1974 TOTAL 852,894 MEAN 2,337 MAX 18,000 MIN 90 CFSM 11.6 IN 157.07 AC-FT 1,692,000

PEAK DISCHARGE (BASE, 14,000 CFS).--Nov. 16 (0100) 20,100 cfs (18.79 ft); Jan. 16 (1400) 20,900 cfs (19.27 ft).

14306030 YAQUINA RIVER NEAR CHITWOOD, OREG.

LOCATION.--Lat 44°39'29", long 123°50'15", in NE¼SW¼ sec.31, T.10 S., R.9 W., Lincoln County, on left bank 200 ft (60 m) below Thornton Creek and 1.1 mi (1.8 km) west of Chitwood.

DRAINAGE AREA.--71.0 mi^2 (183.9 km^2).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 28.43 ft (8.665 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 6,150 ft^3/s (174 m^3/s) Nov. 16, gage height, 14.43 ft (4.398 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Sept. 27.

Period of record: Maximum discharge, 6,150 ft^3/s (174 m^3/s) Nov. 16, 1973, gage height, 14.43 ft (4.398 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Sept. 27, 1974.

REMARKS.-- Records excellent. No regulation or diversion above station. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	452	756	709	1,250	1,690	807	107	77	40	17	9.7
2	13	204	574	574	1,050	1,590	818	107	73	38	16	9.0
3	12	141	483	477	807	1,240	917	97	64	37	16	9.0
4	11	220	429	402	774	1,010	860	90	107	35	15	8.4
5	11	301	405	355	761	1,720	727	88	192	35	15	8.4
6	20	244	384	313	684	2,200	624	84	171	34	14	7.3
7	33	212	807	281	557	1,270	571	79	151	33	14	6.8
8	30	258	898	252	461	856	523	75	130	40	14	6.4
9	27	1,360	674	229	399	638	526	71	117	59	14	9.0
10	22	1,060	523	210	355	516	533	79	107	48	13	9.7
11	20	1,040	648	192	316	445	674	102	100	40	12	9.0
12	20	1,230	526	223	295	510	811	104	95	37	12	6.8
13	18	1,440	1,230	695	264	752	663	88	86	33	12	5.9
14	14	1,510	1,250	1,320	255	1,050	526	107	81	30	13	5.4
15	17	3,440	1,220	3,280	264	1,420	432	143	77	30	13	5.0
16	17	4,420	1,470	4,300	483	1,070	363	189	73	30	12	5.4
17	16	1,710	1,740	3,040	818	781	316	225	69	45	12	5.0
18	16	1,080	1,440	1,670	879	606	275	225	65	45	11	5.0
19	15	681	1,040	1,510	1,870	496	244	200	63	37	12	5.0
20	18	713	955	1,130	1,270	417	231	177	59	30	12	5.0
21	33	1,340	1,470	815	921	354	205	154	55	27	12	5.0
22	34	1,350	1,250	656	770	310	189	141	53	26	10	4.5
23	37	1,100	1,060	602	695	275	177	130	51	25	9.7	4.5
24	44	1,130	981	624	613	247	165	133	48	23	10	4.2
25	48	1,200	1,120	649	564	228	151	125	51	23	9.7	3.8
26	42	1,240	914	774	727	207	143	112	59	22	9.0	3.4
27	36	1,180	1,040	957	1,160	202	133	104	59	21	8.4	3.4
28	48	1,440	1,550	1,200	1,800	423	122	97	51	20	8.4	3.4
29	61	1,430	1,350	993	-------	606	114	93	45	20	8.4	3.8
30	50	1,010	1,170	856	-------	910	109	86	41	19	9.7	4.2
31	278	-------	914	993	-------	989	-------	81	-------	18	10	-------
TOTAL	1,082	34,206	30,181	30,334	21,022	25,032	12,449	3,695	2,475	1,000	374.3	181.4
MEAN	34.9	1,140	974	979	751	807	432	119	82.5	32.3	12.1	6.05
MAX	278	4,420	1,740	4,300	1,870	2,200	917	225	192	59	17	9.7
MIN	11	141	384	192	255	202	109	71	41	18	8.4	3.4
CFSM	.49	16.1	13.7	13.8	10.6	11.4	6.08	1.68	1.16	.45	.17	.09
IN.	.57	17.92	15.81	15.89	11.01	13.12	6.78	1.94	1.30	.52	.20	.10
AC-FT	2,150	67,850	59,860	60,170	41,700	49,650	25,680	7,330	4,910	1,980	742	360

CAL YR 1973 TOTAL 101,779.4 MEAN 279 MAX 4,420 MIN 5.7 CFSM 3.93 IN 53.33 AC-FT 201,900
WTR YR 1974 TOTAL 162,531.7 MEAN 445 MAX 4,420 MIN 3.4 CFSM 6.27 IN 85.16 AC-FT 322,400

PEAK DISCHARGE (BASE, 3,300 CFS).--Nov. 16 (0130) 6,150 cfs (14.43 ft); Jan. 16 (1900) 4,920 cfs (12.78 ft).

14306100 NORTH FORK ALSEA RIVER AT ALSEA, OREG.

LOCATION.--Lat 44°22'45", long 123°35'40", in SE¼ sec.1, T.14 S., R.8 W., Benton County, on left bank at Alsea, 0.2 mi (0.3 km) upstream from bridge on Lobster Valley Road, 0.7 mi (1.1 km) upstream from confluence with South Fork, and at mile 49.4 (79.5 km).

DRAINAGE AREA.--63.0 mi² (163 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 272.31 ft (83.000 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 299 ft³/s (8.47 m³/s), 64.45 in/yr (1,637 mm/yr), 216,600 acre-ft/yr (267 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,240 ft³/s (205 m³/s) Nov. 15, gage height, 10.66 ft (3.249 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 21, 22, 27-30.

Period of record: Maximum discharge, 14,100 ft³/s (399 m³/s) Dec. 22, 1964, gage height, 14.57 ft (4.441 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement at gage height 11.80 ft (3.597 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 25, Oct. 2, 1965.

REMARKS.--Records good. No regulation. Some diversions by pumping above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	254	842	728	1,300	1,590	956	133	120	62	28	22
2	28	145	656	546	1,030	1,540	1,080	130	116	65	29	21
3	27	106	602	488	912	1,150	1,620	125	112	58	28	20
4	26	257	530	405	866	950	854	123	135	54	28	19
5	25	248	464	350	836	1,330	728	120	215	53	29	20
6	37	215	518	308	692	1,400	650	118	160	58	27	19
7	52	224	1,240	276	572	948	584	115	130	55	28	19
8	39	395	474	254	476	764	530	112	115	60	28	19
9	35	1,870	704	236	405	608	536	113	105	76	28	20
10	31	944	542	219	350	542	482	120	98	80	26	21
11	30	866	506	206	316	566	518	130	94	70	26	19
12	31	1,370	950	380	296	764	506	132	87	61	26	17
13	28	1,480	1,800	1,740	272	812	440	150	80	55	28	16
14	28	1,780	1,500	2,150	345	1,270	385	170	79	54	29	16
15	27	4,730	1,370	5,900	400	1,440	336	200	77	54	26	16
16	27	3,260	1,600	5,830	914	1,040	296	230	76	53	25	16
17	26	1,360	1,900	2,470	996	854	268	250	73	64	25	16
18	26	862	1,410	1,690	1,240	674	245	230	74	61	25	15
19	25	584	1,030	1,500	1,820	554	227	210	70	54	26	15
20	28	786	1,580	1,120	1,190	458	216	190	68	49	28	15
21	46	1,280	2,230	860	950	390	200	180	65	46	27	14
22	42	1,130	1,560	704	788	340	188	170	67	42	23	14
23	47	974	1,390	614	668	304	188	163	65	40	22	15
24	58	1,000	1,170	554	576	272	179	158	61	38	2	15
25	73	1,140	1,090	572	536	264	168	152	67	37	23	15
26	62	1,240	986	692	776	245	165	145	76	36	22	15
27	52	1,320	1,150	710	926	272	160	140	73	35	21	14
28	61	1,620	1,500	710	1,800	944	150	135	67	33	21	14
29	67	1,530	1,440	656	------	986	140	130	62	33	22	14
30	57	1,120	1,210	668	------	1,280	135	125	64	30	24	14
31	194	------	934	1,040	------	1,090	------	123	------	30	22	------
TOTAL	1,364	34,122	35,330	34,565	22,140	25,721	12,532	4,722	2,751	1,596	794	505
MEAN	44.0	1,137	1,140	1,115	791	830	418	152	91.7	51.5	25.6	16.8
MAX	194	4,730	2,230	5,830	1,820	1,590	1,080	250	215	80	29	22
MIN	25	106	464	206	272	245	135	112	61	30	21	14
CFSM	.70	18.0	18.1	17.7	12.6	13.2	6.63	2.41	1.46	.82	.41	.27
IN.	.81	20.15	20.86	20.41	13.07	15.19	7.40	2.79	1.62	.94	.47	.30
AC-FT	2,710	67,680	70,080	68,560	43,910	51,020	24,860	9,370	5,460	3,170	1,570	1,000

CAL YR 1973 TOTAL 111,681 MEAN 306 MAX 4,730 MIN 14 CFSM 4.86 IN 65.94 AC-FT 221,500
WTR YR 1974 TOTAL 176,142 MEAN 483 MAX 5,830 MIN 14 CFSM 7.67 IN 104.01 AC-FT 349,400

PEAK DISCHARGE (BASE, 2,000 CFS)

NOTE.--No gage-height record Apr. 25 to June 12.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1300	5.85	2,360	1-16	1130	10.61	7,180
11-15	2030	10.66	7,240	2-18	2300	5.75	2,280
12-20	2330	6.77	3,090	2-28	1000	5.57	2,160

14306400 FIVE RIVERS NEAR FISHER, OREG.

LOCATION.--Lat 44°20'15", long 123°49'35", W½ sec.19, T.14 S., R.9 W., Lincoln County, in Siuslaw National Forest, on left bank at downstream side of abandoned highway bridge, 500 ft (152 m) downstream from Lobster Creek, 3.2 mi (5.1 km) north of Fisher, and at mile 3.3 (5.3 km).

DRAINAGE AREA.--114 mi² (295 km²).

PERIOD OF RECORD.--August 1958 to September 1963, October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (39.6 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 602 ft³/s (17.0 m³/s), 71.71 in/yr (1,821 mm/yr), 436,100 acre-ft/yr (511 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 16, gage height, 19.59 ft (5.971 m); minimum, 29 ft³/s (0.82 m³/s) Sept. 26, 27.

Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) Jan. 21, 1972, gage height, 21.08 ft (6.425 m); minimum, 16 ft³/s (0.45 m³/s) Oct. 1, 1967.

Flood of Dec. 22, 1964, reached a stage of 22.3 ft (6.80 m), from floodmarks, discharge, 19,000 ft³/s (538 m³/s), from rating curve extended above 10,000 ft³/s (283 m³/s).

REMARKS.--Records excellent. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1718: 1959.

DISCHARGF. IN CUBIC FEET PER SFCOND. WATER YEAR OCTOBFR 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DFC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	513	1.690	1.420	2.430	3.690	1.770	233	116	75	46	43
2	52	302	1.410	1.170	1.800	3.500	1.790	229	112	75	45	42
3	49	224	1.310	994	1.410	2.460	1.670	213	109	71	45	42
4	46	516	1.170	856	1.420	1.870	1.430	205	182	71	43	42
5	45	640	1.050	741	1.330	2.200	1.240	196	209	72	43	41
6	75	611	1.030	650	1.130	2.610	1.110	188	169	71	42	38
7	109	550	2.500	582	967	1.840	1.020	182	154	67	41	37
8	75	691	1.880	528	841	1.420	917	174	140	89	41	35
9	66	4.420	1.400	480	741	1.150	898	171	131	125	41	38
10	60	2.390	1.110	437	660	1.030	818	171	125	125	39	42
11	57	2.620	1.070	409	608	979	894	188	118	91	38	37
12	57	3.240	2.100	745	588	1.420	902	180	114	77	38	34
13	54	3.080	3.830	3.210	544	1.540	792	165	109	69	39	34
14	51	3.150	3.070	4.480	664	1.990	695	211	107	64	39	33
15	48	4.170	2.790	11.900	770	2.250	617	209	107	63	38	33
16	46	7.550	3.630	12.800	1.930	1.760	556	275	103	63	37	34
17	46	3.060	4.200	6.370	2.070	1.400	507	258	100	121	35	32
18	45	1.830	3.040	3.810	2.270	1.150	468	231	96	129	35	33
19	43	1.290	2.120	3.210	3.820	983	434	207	94	101	37	33
20	54	1.590	3.930	2.180	2.330	841	417	194	94	85	38	30
21	114	2.520	5.940	1.610	1.830	730	382	180	89	75	37	30
22	92	2.090	3.590	1.290	1.610	644	365	173	87	69	35	32
23	92	1.740	2.960	1.080	1.400	579	362	165	87	64	35	30
24	121	1.810	2.300	944	1.190	525	349	161	84	61	37	32
25	169	2.070	2.070	936	1.100	510	317	156	94	60	37	30
26	135	2.150	1.700	1.070	1.580	457	300	146	94	57	35	29
27	110	2.050	2.050	1.060	1.850	522	285	138	96	55	37	29
28	127	2.610	2.810	1.030	4.330	1.760	268	133	91	54	37	30
29	127	2.680	2.540	963	------	1.780	254	129	84	52	38	30
30	110	2.090	2.150	987	------	2.240	242	127	77	51	41	30
31	295	------	1.740	2.080	------	1.970	------	121	------	49	41	------
TOTAL	2.627	69.237	74.180	70.022	43.213	47.800	22.069	5.709	3.372	2.351	1.210	1.035
MFAN	84.7	2.308	2.393	2.259	1.543	1.542	736	184	112	75.8	39.0	34.5
MAX	295	9.170	5.940	12.800	4.330	3.690	1.790	275	209	129	46	43
MIN	43	224	1.030	409	544	457	242	121	77	49	35	29
CFSM	.74	20.2	21.0	19.8	13.5	13.5	6.46	1.61	.98	.66	.34	.30
IN.	.86	22.59	24.21	22.85	14.10	15.60	7.20	1.86	1.10	.77	.39	.34
AC-FT	5.210	137.300	147.100	138.900	85.710	94.810	43.770	11.320	6.690	4.660	2.400	2.050

CAL YR 1973 TOTAL 232.663 MEAN 637 MAX 9.170 MIN 21 CFSM 5.59 IN 75.92 AC-FT 461.500
WTR YR 1974 TOTAL 342.825 MEAN 939 MAX 12.800 MIN 29 CFSM 8.24 IN 111.87 AC-FT 680.000

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1230	12.29	5,770	12-21	0200	14.49	8,120
11-15	2130	18.72	13,500	1-16	1430	19.59	14,800
12-12	2400	10.68	4,350	2-19	0130	11.04	4,680
12-17	1400	10.75	4,420	2-28	1000	11.90	5,450

14306500 ALSEA RIVER NEAR TIDEWATER, OREG.

LOCATION.--Lat 44°23'10", long 123°49'50", in NW¼NW¼ sec.6, T.14 S., R.9 W., Lincoln County, on right bank 0.9 mi (1.4 km) downstream from Grass Creek, 2.5 mi (4.0 km) upstream from Scott Creek, 3.8 mi (6.1 km) southeast of Tidewater, and at mile 21.0 (33.8 km).

DRAINAGE AREA.--334 mi^2 (865 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.16 ft (14.679 m) above mean sea level. Prior to Nov. 16, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 1,571 ft^3/s (44.5 m^3/s), 63.87 in/yr (1,622 mm/yr), 1,138,000 acre-ft/yr (1.40 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 34,100 ft^3/s (966 m^3/s) Jan. 16, gage height, 24.55 ft (7.483 m); minimum, 62 ft^3/s (1.76 m^3/s) Sept. 26,27.

Period of record: Maximum discharge, 41,800 ft^3/s (1,180 m^3/s) Dec. 22, 1964, gage height, 27.44 ft (8.364 m); minimum, 45 ft^3/s (1.27 m^3/s) Sept. 26, 27, 1965.

Flood on or about Feb. 3, 1890, reached a stage of 29.5 ft (8.99 m), from floodmark (discharge not determined).

REMARKS.--Records excellent. No regulation. Diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	1,580	4,790	3,890	6,900	9,580	4,850	716	404	237	146	111
2	137	859	3,910	3,230	5,370	9,430	5,250	707	398	237	140	107
3	131	615	3,560	2,730	4,150	6,820	5,060	671	378	229	138	103
4	124	1,190	3,210	2,350	4,210	5,300	4,250	640	418	224	134	95
5	119	1,610	2,860	2,070	4,040	6,410	3,610	620	810	219	134	95
6	150	1,400	2,710	1,830	3,400	7,800	3,230	599	604	224	132	95
7	258	1,340	6,220	1,640	2,880	5,450	2,920	580	541	214	128	91
8	206	1,480	5,260	1,500	2,490	4,150	2,620	560	490	253	126	89
9	174	9,520	3,880	1,380	2,190	3,320	2,590	545	455	332	126	97
10	155	5,960	3,130	1,270	1,950	2,890	2,410	552	427	358	124	107
11	145	5,770	2,860	1,190	1,770	2,810	2,570	587	404	284	118	101
12	146	7,650	4,740	1,720	1,690	3,690	2,650	599	388	253	116	91
13	140	8,350	10,100	8,060	1,560	4,240	2,310	545	368	232	126	82
14	133	8,520	8,260	10,700	1,800	5,600	2,040	628	358	216	122	78
15	127	20,100	7,250	26,900	1,910	7,070	1,820	758	355	209	124	76
16	123	20,700	8,610	31,000	4,510	5,290	1,650	855	342	209	120	76
17	120	8,830	10,600	18,300	5,480	4,170	1,500	865	326	287	116	76
18	117	5,330	8,310	10,600	5,650	3,350	1,400	801	314	342	113	75
19	114	3,730	5,790	9,140	10,300	2,820	1,290	730	302	284	113	71
20	122	4,160	8,090	6,420	6,550	2,420	1,240	680	299	250	120	69
21	205	6,930	14,900	4,740	5,080	2,110	1,140	628	290	227	120	69
22	218	6,200	9,350	3,830	4,380	1,880	1,080	595	281	209	113	69
23	210	5,040	7,760	3,310	3,760	1,690	1,060	576	281	197	111	68
24	257	5,280	6,150	2,970	3,230	1,540	1,040	560	270	190	109	66
25	381	5,760	5,890	2,930	2,960	1,480	953	545	278	183	107	64
26	340	6,310	4,730	3,430	3,980	1,360	896	515	311	178	103	62
27	273	6,020	5,180	3,420	4,880	1,420	855	490	302	173	97	62
28	282	7,440	7,350	3,390	10,700	4,400	816	468	293	166	93	65
29	327	7,920	6,830	3,120	------	4,890	777	455	264	162	93	68
30	286	6,140	6,030	3,080	------	6,130	744	437	248	159	99	68
31	708	------	4,820	5,030	------	5,700	------	427	------	151	105	------
TOTAL	6,375	181,734	193,130	185,170	117,770	135,210	64,621	18,934	11,199	7,088	3,666	2,446
MEAN	206	6,058	6,230	5,973	4,206	4,362	2,154	611	373	229	118	81.5
MAX	708	20,700	14,900	31,000	10,700	9,580	5,250	865	810	358	146	111
MIN	114	615	2,710	1,190	1,560	1,360	744	427	248	151	93	62
CFSM	.62	18.1	18.7	17.9	12.6	13.1	6.45	1.83	1.12	.69	.35	.24
IN.	.71	20.24	21.51	20.62	13.12	15.06	7.20	2.11	1.25	.79	.41	.27
AC-FT	12,640	360,500	383,100	367,300	233,600	268,200	128,200	37,560	22,210	14,060	7,270	4,850

CAL YR 1973 TOTAL 611,480 MEAN 1,675 MAX 20,700 MIN 58 CFSM 5.02 IN 68.10 AC-FT 1,213,000
WTR YR 1974 TOTAL 927,343 MEAN 2,541 MAX 31,000 MIN 62 CFSM 7.61 IN 103.28 AC-FT 1,839,000

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2330	23.10	30,400	1-16	1630	24.55	34,100
12-21	0400	17.55	18,400	2-28	1230	14.78	13,300

14306900 BIG CREEK NEAR ROOSEVELT BEACH, OREG.

LOCATION.--Lat 44°10'05", long 124°03'55", in SE¼SE¼ sec.13, T.16 S., R.12 W., Lane County, on right bank 1.0 mi (1.6 km) downstream from Frying Pan Creek, 2.5 mi (4.0 km) east of Roosevelt Beach.

DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 141 ft (43.0 m) above mean sea level (by barometer).

EXTREMES.--Current year: Maximum discharge, 1,520 ft^3/s (43.0 m^3/s) Nov. 15, gage height, 6.50 ft (1.981 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 26-30.

Period of record: Maximum discharge, 1,520 ft^3/s (43.0 m^3/s) Nov. 15, 1973, gage height, 6.50 ft (1.981 m); minimum, 4.5 ft^3/s (0.13 m^3/s) Oct. 18-21, 24, 25, 1972.

Flood in January 1972 reached a stage of 6.56 ft (1.999 m), from floodmark, discharge, 1,580 ft^3/s (44.7 m^3/s).

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	145	303	261	345	510	247	42	32	21	29	13
2	25	120	272	213	282	445	228	41	30	21	28	12
3	24	102	254	178	244	340	216	38	29	20	27	12
4	23	117	225	155	279	335	189	37	83	19	26	12
5	22	128	204	130	240	624	173	36	83	19	24	11
6	45	128	216	116	210	665	155	34	71	19	24	11
7	33	128	380	102	180	415	140	33	64	18	22	11
8	28	175	307	90	158	282	126	32	60	22	22	11
9	26	651	251	83	133	219	124	31	56	61	21	16
10	24	495	207	75	116	189	112	31	53	45	20	12
11	24	612	186	71	106	170	170	50	50	32	19	11
12	24	588	261	124	114	189	168	37	47	28	19	10
13	23	540	375	279	102	170	155	33	45	25	19	9.9
14	22	470	355	505	124	335	135	61	42	24	18	9.5
15	21	1.160	400	860	165	582	120	52	39	23	18	9.9
16	21	950	594	1.250	265	410	108	74	37	30	17	9.9
17	20	522	576	836	254	296	96	68	36	160	16	9.5
18	19	335	410	516	516	240	87	62	34	145	16	9.2
19	19	247	307	420	700	201	80	59	33	102	15	9.2
20	51	275	564	310	420	170	84	54	32	83	15	8.6
21	48	254	724	247	310	145	72	51	30	69	15	8.9
22	36	247	546	216	247	122	68	49	30	61	14	8.9
23	44	272	522	192	210	108	65	47	27	56	14	8.9
24	55	296	455	170	180	96	61	47	27	50	14	8.6
25	52	395	415	170	186	90	58	46	27	46	13	8.3
26	48	375	350	165	237	80	54	42	27	42	13	8.1
27	45	490	594	192	254	92	52	39	30	39	12	8.1
28	72	540	665	204	552	148	49	37	25	37	12	8.1
29	56	455	594	207	------	173	47	36	23	35	12	8.1
30	52	355	475	228	------	254	43	34	22	33	13	8.1
31	115	------	350	325	------	254	------	33	------	31	13	------
TOTAL	1.143	11.567	12.337	8.890	7.129	8.349	3.482	1.366	1.224	1.416	560	301.8
MEAN	36.9	386	398	287	255	269	116	44.1	40.8	45.7	18.1	10.1
MAX	115	1.160	724	1.250	700	665	247	74	83	160	29	16
MIN	19	102	186	71	102	80	43	31	22	18	12	8.1
CFSM	3.10	32.4	33.4	24.1	21.4	22.6	9.75	3.71	3.43	3.84	1.52	.85
IN.	3.57	36.16	38.57	27.79	22.29	26.10	10.88	4.27	3.83	4.43	1.75	.94
AC-FT	2.270	22.940	24.470	17.630	14.140	16.560	6.910	2.710	2.430	2.810	1.110	599

CAL YR 1973 TOTAL 42.457.4 MEAN 116 MAX 1.160 MIN 6.8 CFSM 9.75 IN 132.72 AC-FT 84.210
WTR YR 1974 TOTAL 57.764.8 MEAN 158 MAX 1.250 MIN 8.1 CFSM 13.3 IN 180.58 AC-FT 114.600

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1030	5.74	812	1-16	1200	6.48	1,500
11-15	1900	6.50	1,520	2-18	2200	5.86	914
12-28	0030	5.78	844	3- 5	1830	5.81	869

14307580 LAKE CREEK NEAR DEADWOOD, OREG.

LOCATION.--Lat 44°04'58", long 123°47'05", in NW¼NW¼ sec.21, T.17 S., R.9 W., Lane County, on right bank 0.2 mi (0.3 km) upstream from Indian Creek, 1.5 mi (2.4 km) southwest of Deadwood, and at mile 2.6 (4.2 km).

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 178.86 ft (54.517 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 825 ft³/s (23.4 m³/s), 64.39 in/yr (1,636 mm/yr), 597,700 acre-ft/yr (737 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 16, gage height, 15.02 ft (4.578 m); minimum, 20 ft³/s (0.57 m³/s) Sept. 24-30.

Period of record: Maximum discharge, 19,700 ft³/s (558 m³/s) Jan. 21, 1972, gage height, 15.25 ft (4.648 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 23, 1973.

REMARKS.--Records good. Flow slightly regulated by natural storage in Triangle Lake. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	390	2,480	2,060	3,210	4,150	2,580	338	173	84	46	37
2	65	256	1,910	1,640	2,690	4,280	2,480	330	166	84	44	34
3	60	208	1,670	1,410	2,120	3,370	2,480	314	159	79	44	32
4	54	485	1,480	1,190	2,010	2,650	2,160	302	222	74	43	32
5	52	654	1,300	1,040	1,870	3,200	1,850	290	274	76	41	31
6	58	708	1,280	900	1,590	3,830	1,600	282	236	76	40	30
7	79	630	3,740	797	1,360	2,760	1,420	270	215	71	38	29
8	69	792	2,830	720	1,160	2,120	1,270	258	194	91	37	29
9	63	3,630	2,040	657	1,030	1,700	1,260	250	180	106	37	31
10	58	2,400	1,520	602	916	1,460	1,170	250	166	116	37	34
11	56	2,310	1,280	566	825	1,360	1,160	282	152	101	35	31
12	54	3,070	1,890	727	783	1,930	1,130	274	142	91	35	27
13	52	3,300	3,630	2,820	727	2,100	1,030	254	136	84	35	26
14	50	3,370	3,470	4,740	811	3,310	916	294	133	76	35	25
15	48	7,480	3,640	12,500	956	3,820	825	322	131	74	35	25
16	46	7,880	4,560	16,600	2,480	2,860	741	425	128	71	34	25
17	46	4,340	5,330	9,880	2,830	2,230	685	410	122	116	34	25
18	44	2,610	4,330	5,710	3,630	1,790	632	370	116	139	35	24
19	44	1,630	3,210	4,650	5,500	1,490	590	338	111	114	38	24
20	54	2,160	5,000	3,380	3,650	1,260	560	310	111	96	37	22
21	92	3,380	7,950	2,470	2,860	1,080	518	286	104	86	35	22
22	92	3,120	5,310	1,950	2,430	948	494	270	101	76	32	23
23	90	2,520	4,500	1,620	2,120	846	482	254	99	69	32	22
24	106	2,550	3,520	1,400	1,800	769	470	247	94	64	32	22
25	149	2,980	3,160	1,320	1,620	734	440	240	99	60	31	22
26	130	3,070	2,540	1,440	2,200	671	420	226	104	57	30	21
27	110	3,130	3,350	1,490	2,820	713	400	215	114	57	29	21
28	115	[illegible],420	4,350	1,520	4,200	2,120	380	205	109	53	27	21
29	120	3,940	4,110	1,500	------	2,550	362	194	99	51	29	21
30	108	3,210	3,420	1,570	------	3,760	350	187	91	49	31	21
31	188	------	2,620	2,370	------	3,120	------	180	------	47	35	------
TOTAL	2,423	79,623	101,420	91,239	60,198	68,981	30,855	8,667	4,281	2,488	1,103	789
MEAN	78.2	2,654	3,272	2,943	2,150	2,225	1,029	280	143	80.3	35.6	26.3
MAX	188	7,880	7,950	16,600	5,500	4,280	2,580	425	274	139	46	37
MIN	44	208	1,280	566	727	671	350	180	91	47	27	21
CFSM	.45	15.3	18.8	16.9	12.4	12.8	5.91	1.61	.82	.46	.20	.15
IN.	.52	17.02	21.68	19.51	12.87	14.75	6.60	1.85	.92	.53	.24	.17
AC-FT	4,810	157,900	201,200	181,000	119,400	136,800	61,200	17,190	8,490	4,930	2,190	1,560

CAL YR 1973 TOTAL 290,853 MEAN 797 MAX 7,950 MIN 17 CFSM 4.56 IN 62.18 AC-FT 576,900
WTR YR 1974 TOTAL 452,067 MEAN 1,239 MAX 16,600 MIN 21 CFSM 7.12 IN 96.65 AC-FT 896,700

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2000	10.65	10,700	2-18	2330	8.66	7,620
12-20	2400	10.87	11,100	2-28	1200	6.67	4,860
1-16	1430	15.02	18,700				

14307620 SIUSLAW RIVER NEAR MAPLETON, OREG.

LOCATION.--Lat 44°03'45", long 123°52'55, in SW¼NW¼ sec.27, T.17 S., R.10 W., Lane County, on right bank 250 ft (76 m) above Shoemaker Creek, 2.5 mi (4.0 km) northwest of Mapleton, and at mile 23.7 (38.1 km).

DRAINAGE AREA.--588 mi² (1,523 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 41 ft (12.5 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 2,477 ft³/s (70.1 m³/s), 57.21 in/yr (1,453 mm/yr), 1,795,000 acre-ft/yr (2.21 km³/yr).

EXTREMES.--Current year: Maximum discharge, 48,900 ft³/s (1,380 m³/s) Jan. 16, gage height, 28.28 ft (8.620 m); minimum, 76 ft³/s (2.15 m³/s) Sept. 30.

Period of record: Maximum discharge, 49,400 ft³/s (1,400 m³/s) Jan. 21, 1972, gage height, 28.45 ft (8.672 m); minimum, 56 ft³/s (1.59 m³/s) Aug. 22-24, 1973.

Flood of December 1964 reached a stage of about 28 ft (8.5 m), from information by local residents (discharge not determined).

REMARKS.--Records good. No regulation or diversions above station. Records of water temperatures and suspended sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	1,370	7,830	6,130	9,190	12,200	8,490	1,100	580	303	182	131
2	187	942	6,070	4,880	7,890	12,100	7,900	1,070	554	297	176	136
3	173	728	5,230	4,200	6,120	9,540	8,020	1,030	538	287	173	131
4	165	1,290	4,610	3,580	5,600	7,470	6,870	995	717	278	168	126
5	157	2,300	4,040	3,130	5,070	8,850	5,640	957	1,020	273	165	124
6	170	2,380	3,760	2,740	4,540	11,600	4,830	920	844	277	159	121
7	234	2,540	10,000	2,430	3,880	8,500	4,170	891	752	270	154	116
8	203	2,580	8,960	2,220	3,390	6,360	3,680	857	679	313	151	114
9	187	10,500	6,310	2,040	3,020	5,040	3,620	828	623	390	149	116
10	176	7,140	4,730	1,890	2,740	4,270	3,300	828	582	460	146	121
11	168	6,710	4,020	1,780	2,500	3,950	3,330	918	545	395	141	119
12	162	9,240	5,080	2,100	2,340	5,350	3,250	925	514	332	139	111
13	159	10,400	11,200	6,830	2,210	6,360	2,930	835	492	301	139	107
14	154	10,200	11,400	13,500	2,330	11,800	2,630	899	477	276	144	100
15	149	20,200	11,400	36,400	2,610	14,400	2,380	1,020	470	262	146	100
16	144	23,700	12,800	45,900	7,210	9,570	2,180	1,270	460	258	141	96
17	144	12,100	15,700	34,000	9,190	6,900	2,030	1,340	444	390	136	98
18	144	7,030	12,800	19,500	10,500	5,400	1,900	1,230	425	554	134	96
19	139	4,550	8,990	14,600	17,900	4,480	1,780	1,130	400	435	139	93
20	157	5,480	13,200	10,500	11,000	3,810	1,720	1,030	399	370	141	89
21	269	9,070	22,700	7,510	8,220	3,300	1,610	942	386	322	144	87
22	282	9,270	14,400	5,920	6,860	2,910	1,530	874	370	286	144	87
23	273	7,570	12,100	4,900	6,180	2,580	1,510	836	367	265	136	85
24	295	7,720	9,470	4,190	5,380	2,350	1,510	807	349	248	134	83
25	445	8,320	8,790	3,950	4,830	2,240	1,430	782	355	234	131	83
26	409	8,830	7,290	4,070	6,030	2,070	1,370	737	376	223	126	83
27	340	9,020	9,590	4,070	8,370	2,140	1,300	700	395	213	121	83
28	345	10,000	13,100	4,140	12,800	5,680	1,240	668	385	206	116	96
29	374	12,900	12,400	4,110	------	7,860	1,190	644	349	200	116	91
30	331	10,500	10,600	4,270	------	11,700	1,140	625	323	190	119	81
31	600	------	7,930	6,640	------	10,600	------	602	------	190	128	------
TOTAL	7,335	234,580	296,500	272,120	177,900	211,380	94,480	28,290	15,170	9,298	4,438	3,104
MEAN	237	7,819	9,565	8,778	6,354	6,819	3,149	913	506	300	143	103
MAX	600	23,700	22,700	45,900	17,900	14,400	8,490	1,340	1,020	554	182	136
MIN	139	728	3,760	1,780	2,210	2,070	1,140	602	323	190	116	81
CFSM	.40	13.3	16.3	14.9	10.8	11.6	5.36	1.55	.86	.51	.24	.18
IN.	.46	14.84	18.76	17.22	11.25	13.37	5.98	1.79	.96	.59	.28	.20
AC-FT	14,550	465,300	588,100	539,800	352,900	419,300	187,400	56,110	30,090	18,440	8,800	6,160

CAL YR 1973 TOTAL 859,300 MEAN 2,354 MAX 23,700 MIN 56 CFSM 4.00 IN 54.36 AC-FT 1,704,000
WTR YR 1974 TOTAL 1,354,595 MEAN 3,711 MAX 45,900 MIN 81 CFSM 6.31 IN 85.70 AC-FT 2,687,000

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2230	21.77	30,700	1-16	1330	28.28	48,900
12-17	1700	15.22	16,100	2-19	0200	18.3	22,600
12-21	0200	21.32	29,700	3-14	2300	15.92	17,500

14307645 NORTH FORK SIUSLAW RIVER NEAR MINERVA, OREG.

LOCATION.--Lat 44°02'50", long 124°00'10", in NW¼SW¼ sec.34, T.17 S., R.11 W., Lane County, on left bank 10 ft (3 m) downstream from county road bridge, 0.3 mi (0.5 km) upstream from Condon Creek, 2.7 mi (4.3 km) southwest of Minerva, and at mile 13.09 (21.06 km).

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 40 ft (12 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 314 ft³/s (8.89 m³/s), 103.50 in/yr (2,629 mm/yr), 227,500 acre-ft/yr (281 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,680 ft³/s (75.9 m³/s) Jan. 16, gage height, 21.37 ft (6.513 m); maximum gage height, 21.78 ft (6.639 m) Nov. 15 (backwater from debris); minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 29, 30.

Period of record: Maximum discharge, 3,040 ft³/s (86.1 m³/s) Jan. 21, 1972, gage height, 23.01 ft (7.013 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 2, 3, 15-18, 1972.

REMARKS.--Records good. No regulation. Small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	532	906	761	969	1,530	800	125	82	56	49	30
2	54	301	771	616	765	1,290	750	126	79	55	48	29
3	51	228	736	502	631	1,000	700	116	76	54	46	28
4	48	312	649	435	792	1,010	600	110	228	52	45	27
5	46	370	568	386	682	1,730	500	105	385	52	43	26
6	73	399	571	343	571	1,990	460	102	258	51	42	25
7	79	353	1,350	313	482	1,240	420	98	207	49	42	24
8	59	462	995	287	421	805	380	95	176	63	41	24
9	55	1,800	720	261	371	620	351	94	153	107	39	33
10	51	1,340	579	242	331	519	320	94	137	103	38	29
11	48	1,320	517	228	302	476	496	140	123	75	37	25
12	48	1,530	684	314	317	597	497	116	114	64	36	24
13	45	1,370	1,110	785	294	500	405	101	107	58	36	23
14	43	1,190	945	1,350	334	1,000	348	152	102	54	36	22
15	42	2,170	1,030	2,220	405	1,800	307	168	96	53	35	21
16	41	2,480	1,600	2,530	786	1,300	275	243	92	54	34	21
17	40	1,640	1,690	2,150	753	1,000	250	235	87	205	33	21
18	39	928	1,210	1,480	1,260	800	231	196	83	281	33	20
19	38	655	893	1,160	2,030	650	215	143	80	165	33	20
20	72	882	1,550	841	1,180	550	224	141	78	124	33	20
21	141	942	2,320	658	862	440	197	139	74	103	32	20
22	95	904	1,750	573	724	360	188	129	71	91	31	20
23	93	913	1,690	516	621	280	186	121	69	83	31	20
24	107	1,080	1,330	467	528	240	180	121	66	76	30	19
25	126	1,320	1,250	474	519	220	168	120	69	70	29	18
26	109	1,240	963	475	746	200	158	108	68	66	29	18
27	95	1,470	1,560	548	848	240	151	100	85	63	27	18
28	141	1,650	1,940	630	1,750	400	144	96	70	59	27	18
29	131	1,450	1,660	627	------	600	136	93	63	56	29	17
30	111	1,120	1,390	711	------	850	131	90	58	55	30	17
31	377	------	1,010	932	------	850	------	86	------	52	30	------
TOTAL	2,556	32,351	35,957	23,815	20,274	25,087	10,168	3,903	3,436	2,549	1,104	677
MEAN	82.5	1,078	1,160	768	724	809	339	126	115	82.2	35.6	22.6
MAX	377	2,480	2,320	2,530	2,030	1,990	800	243	385	281	49	33
MIN	38	228	517	228	294	200	131	86	58	49	27	17
CFSM	2.00	26.2	28.2	18.6	17.6	19.6	8.23	3.06	2.79	2.00	.86	.55
IN.	2.31	29.21	32.47	21.50	18.31	22.65	9.18	3.52	3.10	2.30	1.00	.61
AC-FT	5,070	64,170	71,320	47,240	40,210	49,760	20,170	7,740	6,820	5,060	2,190	1,340

CAL YR 1973 TOTAL 116,601 MEAN 319 MAX 2,480 MIN 17 CFSM 7.74 IN 105.28 AC-FT 231,300
WTR YR 1974 TOTAL 161,877 MEAN 443 MAX 2,530 MIN 17 CFSM 10.8 IN 146.16 AC-FT 321,100

PEAK DISCHARGE (BASE, 1,800 CFS, REVISED)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	1530	18.75	2,090	1-16	1530	21.37	2,680
11-15	2100	21.78	2,670	2-19	0200	19.63	2,320
12-16	1700	17.11	1,820	3- 6	0030	19.59	2,320
12-21	0130	20.77	2,550	3-15	unknown	unknown	e1,800
12-28	0100	19.21	2,240				

e Estimated daily.

14307700 JACKSON CREEK NEAR TILLER, OREG.

LOCATION.--Lat 42°57'15", long 122°49'40", in SW¼NE¼ sec.21, T.30 S., R.1 W., Douglas County, on right bank 0.5 mi (0.8 km) upstream from Chapman Creek, 0.8 mi (1.3 km) downstream from Beaver Creek, 6.5 mi (10.5 km) northeast of Tiller, and at mile 3.0 (4.8 km). Records include flow of Chapman Creek.

DRAINAGE AREA.--152 mi² (394 km²), at cableway 0.6 mi (1.0 km) downstream where all discharge measurements are made.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,240.25 ft (378.028 m) above mean sea level (levels by Douglas County Water Resources Survey).

AVERAGE DISCHARGE.--19 years, 328 ft³/s (9.29 m³/s), 29.30 in/yr (744 mm/yr), 237,600 acre-ft/yr (293 hm³/yr).

EXTREMES.--Current year: Maximum discharge 14,700 ft³/s (416 m³/s) Jan. 15, gage height, 14.69 ft (4.478 m); minimum, 16 ft³/s (0.45 m³/s) Oct. 18, 19.

Period of record: Maximum discharge, 21,100 ft³/s (598 m³/s) Dec. 22, 1964, gage height, 18.0 ft (5.49 m), from floodmark, from rating curve extended above 5,100 ft³/s (144 m³/s) and basin runoff comparison; minimum daily, 12 ft³/s (0.34 m³/s) Oct. 2-4, 1955.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1935: 1956-57(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	245	2.280	798	850	1.060	2.280	476	371	95	34	23
2	19	162	1.340	642	646	928	1.820	440	416	91	33	22
3	18	121	1.000	539	548	683	1.280	405	420	86	32	22
4	18	108	837	452	579	570	970	397	440	81	31	21
5	18	1.010	716	386	557	579	852	464	588	77	31	21
6	18	2.700	711	325	476	923	822	570	535	75	31	21
7	30	1.020	1.550	287	416	707	716	619	460	71	30	21
8	25	3.200	1.560	258	379	566	642	610	390	72	29	21
9	21	1.670	1.090	234	360	489	619	574	364	71	28	21
10	20	1.400	968	209	349	440	574	472	368	65	28	21
11	19	1.860	862	198	346	468	574	405	390	63	28	21
12	19	2.440	807	222	342	768	702	379	397	60	28	20
13	19	1.530	1.010	1.220	318	768	628	332	390	57	28	20
14	18	1.130	938	2.710	325	2.040	552	300	368	55	28	20
15	18	1.100	923	10.400	321	2.460	518	318	335	53	28	19
16	17	1.380	980	8.200	464	1.780	464	294	297	51	28	19
17	17	1.150	1.480	3.800	472	1.620	444	300	277	51	27	19
18	17	903	1.220	2.480	959	1.330	480	294	261	50	27	19
19	17	674	938	2.130	1.450	1.040	464	287	239	49	27	19
20	21	610	847	1.430	997	877	420	267	203	46	28	19
21	108	646	986	1.000	807	754	390	267	179	45	27	19
22	245	601	857	800	702	678	413	267	166	43	27	19
23	248	637	711	650	586	610	420	283	158	42	26	19
24	254	837	637	550	527	552	413	294	146	42	26	18
25	152	862	991	550	514	561	382	364	136	40	25	18
26	101	812	832	550	552	592	346	456	124	40	25	18
27	76	857	842	550	535	646	321	501	113	39	24	18
28	105	1.170	1.220	550	827	1.100	294	468	106	38	23	18
29	152	2.080	1.870	500	------	1.350	314	405	101	37	23	18
30	103	3.170	1.360	480	------	3.000	397	360	98	37	23	18
31	89	------	1.020	600	------	1.710	------	346	------	36	23	------
TOTAL	2.022	36.085	33.323	43.700	16.206	31.649	19.511	12.214	8.836	1.758	856	592
MEAN	65.2	1.203	1.075	1.410	579	1.021	650	394	295	56.7	27.6	19.7
MAX	254	3.200	2.280	10.400	1.450	3.000	2.280	619	588	95	34	23
MIN	17	108	637	198	318	440	294	267	98	36	23	18
CFSM	.43	7.91	7.07	9.28	3.81	6.72	4.28	2.59	1.94	.37	.18	.13
IN.	.49	8.83	8.16	10.70	3.97	7.75	4.78	2.99	2.16	.43	.21	.14
AC-FT	4.010	71.570	66.100	86.680	32.140	62.780	38.700	24.230	17.530	3.490	1.700	1.170

CAL YR 1973 TOTAL 124.481 MEAN 341 MAX 3.200 MIN 13 CFSM 2.24 IN 30.47 AC-FT 246.900
WTR YR 1974 TOTAL 206.752 MEAN 566 MAX 10.400 MIN 17 CFSM 3.72 IN 50.60 AC-FT 410.100

PEAK DISCHARGE (BASE 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0630	7.92	4,110	1-15	1800	14.69	14,700
11- 8	0800	8.08	4,290	3-14	2000	7.36	3,490
11-12	1100	6.54	2,720	3-30	0530	7.60	3,730
11-30	1230	7.85	4,040	4- 1	1000	6.58	2,720

14308000 SOUTH UMPQUA RIVER AT TILLER, OREG.

LOCATION.--Lat 42°55'50", long 122°56'50", in NE¼ sec.33, T.30 S., R.2 W., Douglas County, on right bank 0.3 mi (0.5 km) upstream from bridge on State Highway 227 at Tiller, 0.3 mi (0.5 km) upstream from Elk Creek, and at mile 187.31 (301.38 km).

DRAINAGE AREA.--449 mi² (1,163 km²).

PERIOD OF RECORD.--October 1910 to December 1911, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1318. Prior to December 1911, published as South Fork of Umpqua River at Tiller.

GAGE.--Water-stage recorder. Datum of gage is 991.8 ft (302.30 m) above mean sea level (river-profile survey). Prior to Oct. 1, 1939, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--36 years, 1,053 ft³/s (29.8 m³/s), 31.85 in/yr (809 mm/yr), 762,900 acre-ft/yr (941 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 31,900 ft³/s (903 m³/s) Jan. 15, gage height, 18.36 ft (5.596 m); minimum, 44 ft³/s (1.25 m³/s) Sept. 25-30.

Period of record: Maximum discharge, 60,200 ft³/s (1,700 m³/s) Dec. 22, 1964, gage height, 25.72 ft (7.839 m); minimum observed, 20 ft³/s (0.57 m³/s) Sept. 3, 4, 1911.

REMARKS.--Records good. No regulation. Small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1448: 1911(M), 1912, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	959	7,070	2,750	3,100	3,000	7,490	1,430	934	326	95	58
2	65	586	4,300	2,170	2,560	2,800	6,270	1,310	1,060	308	93	58
3	61	411	3,250	1,780	2,010	2,120	4,340	1,180	1,100	287	91	57
4	60	379	2,810	1,490	1,990	1,700	3,280	1,150	1,110	263	89	55
5	58	2,630	2,330	1,270	1,900	1,890	2,850	1,340	1,710	253	87	55
6	58	7,490	2,400	1,070	1,590	3,620	2,760	1,630	1,590	244	87	55
7	76	3,010	5,200	978	1,370	2,610	2,350	1,740	1,320	231	85	55
8	79	10,800	5,200	885	1,210	1,920	2,080	1,710	1,090	228	81	53
9	67	5,700	4,000	804	1,180	1,540	2,070	1,610	978	237	81	53
10	61	4,880	2,600	738	1,170	1,340	1,920	1,320	959	210	79	53
11	58	5,320	2,400	692	1,140	1,390	1,970	1,140	1,030	198	77	55
12	58	7,810	2,500	733	1,090	2,230	2,460	1,090	1,090	187	77	53
13	58	5,150	3,000	4,470	991	2,340	2,070	965	1,070	179	76	52
14	57	4,030	2,800	8,150	978	7,670	1,780	879	1,040	170	76	50
15	53	4,550	2,800	24,500	1,020	9,900	1,640	915	972	163	76	49
16	52	4,570	3,400	19,700	1,520	6,480	1,470	874	862	157	74	49
17	52	3,700	4,400	11,100	1,730	6,040	1,420	879	821	155	72	50
18	50	2,800	3,600	7,320	2,810	4,700	1,550	844	793	155	70	49
19	50	2,050	2,800	6,470	5,480	3,590	1,460	816	755	147	72	49
20	61	1,880	2,600	4,360	3,550	3,000	1,320	755	648	140	76	49
21	270	2,210	2,800	3,210	2,710	2,550	1,210	733	577	135	76	47
22	643	2,040	2,600	2,510	2,340	2,290	1,290	718	549	128	72	46
23	624	2,160	2,000	2,060	1,870	2,000	1,310	749	522	123	70	47
24	718	2,850	1,800	1,740	1,640	1,800	1,310	760	483	121	68	47
25	536	2,900	2,800	1,690	1,650	1,810	1,190	885	453	119	67	46
26	344	2,860	2,400	1,780	1,870	1,910	1,070	1,130	419	114	65	44
27	247	3,160	2,400	1,730	1,780	1,990	985	1,290	379	110	63	44
28	237	4,490	3,800	1,820	2,420	3,340	915	1,230	356	112	61	46
29	411	8,260	5,400	1,720	------	4,150	978	1,090	341	110	61	44
30	287	9,660	4,000	1,550	------	7,880	1,210	959	333	103	61	46
31	237	------	3,200	1,830	------	5,280	------	891	------	99	60	------
TOTAL	5,756	119,295	102,660	123,070	54,669	104,880	64,018	34,012	25,344	5,512	2,338	1,514
MEAN	186	3,977	3,312	3,970	1,952	3,383	2,134	1,097	845	178	75.4	50.5
MAX	718	10,800	7,070	24,500	5,480	9,900	7,490	1,740	1,710	326	95	58
MIN	50	379	1,800	692	978	1,340	915	718	333	99	60	44
CFSM	.41	8.86	7.38	8.84	4.35	7.53	4.75	2.44	1.88	.40	.17	.11
IN.	.48	9.88	8.51	10.20	4.53	8.69	5.30	2.82	2.10	.46	.19	.13
AC-FT	11,420	236,600	203,600	244,100	108,400	208,000	127,000	67,460	50,270	10,930	4,640	3,000

CAL YR 1973 TOTAL 386,228 MEAN 1,058 MAX 10,800 MIN 33 CFSM 2.36 IN 32.00 AC-FT 766,100
WTR YR 1974 TOTAL 643,068 MEAN 1,762 MAX 24,500 MIN 44 CFSM 3.92 IN 53.28 AC-FT 1,276,000

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0630	10.82	10,700	1-15	1930	18.36	31,900
11- 8	1100	12.30	14,000	3-14	2100	12.92	15,500
11-12	1330	9.78	8,790	3-30	0700	9.70	8,650
11-30	1430	11.36	11,800	4- 1	1000	10.00	9,160
12- 7	time & discharge unknown						

14308500 ELK CREEK NEAR DREW, OREG.

LOCATION.--Lat 42°53'25", long 122°55'00", in SW¼ sec.11, T.31 S., R.2 W., Douglas County, on right bank 100 ft (30 m) downstream from Dixon Creek, 0.1 mi (0.2 km) upstream from Drew Creek, 1.3 mi (2.1 km) northwest of Drew, 3.3 mi (5.3 km) southeast of Tiller, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--54.4 mi² (140.9 km²).

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,279.25 ft (389.915 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 88.9 ft³/s (2.52 m³/s), 64,410 acre-ft/yr (79.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,470 ft³/s (240 m³/s) Jan. 15, gage height, 10.80 ft (3.292 m); no flow at times in September.

Period of record: Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 22, 1964, gage height, 10.61 ft (3.234 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement at gage height 10.34 ft (3.152 m); maximum gage height, 10.80 ft (3.292 m) Jan. 15, 1974; no flow at times in September 1974.

Maximum stage, 11.8 ft (3.60 m), from floodmarks, probably for flood in January or November 1953, discharge, about 11,000 ft³/s (312 m³/s).

REMARKS.--Records good. No regulation. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	19	736	145	440	535	1.480	52	16	4.3	.92	.35
2	1.5	19	363	103	276	383	798	47	15	4.7	.92	.28
3	1.3	14	230	81	194	259	467	44	14	4.0	.92	.14
4	1.2	13	167	65	186	203	312	40	15	3.7	.92	0
5	1.2	758	131	55	162	200	246	38	19	3.7	.80	.07
6	1.3	1.630	124	50	124	339	209	37	17	3.7	.80	0
7	1.9	316	593	45	103	243	167	35	15	3.7	.80	0
8	1.9	1.200	444	40	90	178	143	33	14	4.7	.70	.14
9	1.6	472	249	37	80	143	131	31	13	7.9	.60	.14
10	1.5	413	173	35	71	126	120	29	12	5.0	.60	.14
11	1.5	760	155	35	65	178	129	27	11	4.7	.51	0
12	1.5	890	189	40	64	453	143	26	9.6	4.3	.51	.28
13	1.3	486	413	811	59	355	122	24	8.7	4.0	.60	0
14	1.3	413	280	1.890	58	431	105	23	8.3	3.1	.70	.14
15	1.3	458	253	6.670	55	582	96	26	8.7	3.1	.60	.07
16	1.5	491	240	3.580	96	463	85	29	8.7	2.8	.60	0
17	1.2	327	525	1.400	96	383	80	40	8.3	2.8	.80	0
18	1.1	236	339	1.380	287	294	80	48	7.9	2.8	.80	0
19	1.2	147	209	959	631	215	76	51	7.0	2.8	1.1	0
20	1.9	150	189	535	343	173	73	45	6.6	2.5	1.3	0
21	8.7	178	363	339	266	140	67	40	6.6	2.3	1.2	0
22	24	155	246	240	218	120	65	37	6.2	2.1	1.1	0
23	29	181	167	183	167	103	67	34	6.6	1.9	1.1	0
24	21	339	133	147	138	92	83	30	6.6	1.9	.70	0
25	14	343	197	150	124	90	76	27	5.8	1.9	.70	0
26	9.2	347	155	167	143	90	67	24	6.2	1.7	.60	0
27	6.8	308	173	150	147	138	61	23	5.8	1.5	.43	0
28	8.2	422	290	143	486	718	56	21	5.0	1.5	.14	0
29	19	779	501	126	------	938	54	20	5.0	1.5	.21	0
30	13	1.220	312	112	------	1.670	54	19	4.7	1.3	.14	.21
31	9.8	------	206	236	------	798	------	17	------	1.2	.21	------
TOTAL	191.2	13.484	8.745	19.949	5.169	11.033	5.712	1.017	293.3	97.1	22.03	1.96
MEAN	6.17	449	282	644	185	356	190	32.8	9.78	3.13	.71	.065
MAX	29	1.630	736	6.670	631	1.670	1.480	52	19	7.9	1.3	.35
MIN	1.1	13	124	35	55	90	54	17	4.7	1.2	.14	0
AC-FT	379	26.750	17.350	39.570	10.250	21.880	11.330	2.020	582	193	44	3.9

CAL YR 1973 TOTAL 36.942.06 MEAN 101 MAX 1.630 MIN .01 AC-FT 73.270
WTR YR 1974 TOTAL 65.714.59 MEAN 180 MAX 6.670 MIN 0 AC-FT 130.300

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0530	7.48	3,100	1-15	1530	10.80	8,470
11- 8	0800	6.30	1,740	1-18	1530	6.52	1,970
11-12	0530	5.79	1,270	3-30	0200	6.92	2,420
11-30	1200	6.53	1,980	4- 1	0900	6.78	2,260
12- 7	1430	5.46	1,020				

14309000 COW CREEK NEAR AZALEA, OREG.

LOCATION.--Lat 42°49'30", long 123°10'40", in N½ sec.4, T.32 S., R.4 W., Douglas County, on right bank 0.8 mi (1.3 km) upstream from Whitehorse Creek, 4.5 mi (7.2 km) northeast of Azalea, and at mile 58.2 (93.6 km).

DRAINAGE AREA.--78.0 mi^2 (202.0 km^2).

PERIOD OF RECORD.--April 1926 to September 1928 (no winter records), April 1929 to December 1931, April 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,694.32 ft (516.429 m) above mean sea level (Douglas County Road Department bench mark). Prior to July 19, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years (1929-31, 1932-74), 113 ft^3/s (3.20 m^3/s), 19.67 in/yr (500 mm/yr), 81,870 acre-ft/yr (101 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft^3/s (300 m^3/s) Jan. 15, gage height, 16.40 ft (4.999 m), from high-water mark in well; minimum, 7.2 ft^3/s (0.20 m^3/s) Sept. 26.

Period of record: Maximum discharge, 10,600 ft^3/s (300 m^3/s) Jan. 15, 1974, gage height, 16.40 ft (4.999 m), from high-water mark in well; minimum recorded, 1.2 ft^3/s (0.034 m^3/s) Sept. 2, 1970, but may have been less during period of no gage-height record Sept. 4-30, 1970.

REMARKS.--Records fair. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 984: 1933-36. WSP 1154: 1946(M), 1948(M). WSP 1448: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	30	872	322	470	783	1.440	125	55	32	14	12
2	11	27	514	277	350	648	1.100	119	53	32	14	12
3	11	22	377	248	300	488	750	112	52	32	14	10
4	11	27	312	221	288	410	564	107	51	32	14	10
5	11	524	268	201	265	383	455	102	53	31	14	11
6	12	1.300	242	176	233	480	383	100	55	31	14	10
7	15	297	619	163	212	423	325	97	53	31	13	10
8	15	1.040	490	149	200	353	300	94	51	32	13	10
9	13	493	354	140	190	313	290	90	49	34	13	11
10	12	601	297	128	180	285	260	85	47	33	13	12
11	12	1.150	297	125	172	325	253	82	45	32	13	11
12	12	1.210	342	242	166	633	245	81	44	30	13	10
13	12	613	673	1.680	158	561	221	79	43	30	13	9.9
14	12	542	506	2.040	150	558	208	77	42	29	13	9.5
15	12	601	443	8.100	144	675	206	78	41	24	13	9.9
16	12	736	412	4.400	186	636	198	78	41	19	13	9.9
17	12	485	928	2.200	176	588	190	85	41	19	13	10
18	12	354	587	1.750	258	510	186	96	41	18	13	10
19	12	265	425	1.320	558	435	184	94	39	19	15	9.9
20	21	302	441	901	405	380	180	88	38	19	15	9.1
21	62	324	661	542	370	335	168	81	38	18	14	9.1
22	55	300	485	478	368	305	158	78	37	17	13	8.7
23	60	290	374	418	308	280	160	64	37	17	13	8.3
24	46	433	322	373	280	258	180	69	38	17	13	8.7
25	28	451	357	350	275	248	166	68	36	16	13	7.9
26	22	449	309	333	313	248	148	65	36	16	12	7.2
27	19	433	317	305	343	255	138	63	36	16	12	7.5
28	22	547	377	293	792	738	128	62	35	19	12	8.3
29	33	1.130	610	268	------	845	125	59	34	17	12	8.7
30	23	1.280	480	248	------	1.430	125	58	34	15	12	8.7
31	21	------	382	328	------	950	------	57	------	14	12	------
TOTAL	642	16.256	14.073	28.719	8.110	15.759	9.434	2.593	1.295	741	408	290.3
MEAN	20.7	542	454	926	290	508	314	83.6	43.2	23.9	13.2	9.68
MAX	62	1.300	928	8.100	792	1.430	1.440	125	55	34	15	12
MIN	11	22	242	125	144	248	125	57	34	14	12	7.2
CFSM	.27	6.95	5.82	11.9	3.72	6.51	4.03	1.07	.55	.31	.17	.12
IN.	.31	7.75	6.71	13.70	3.87	7.52	4.50	1.24	.62	.35	.19	.14
AC-FT	1.270	32.240	27.910	56.960	16.090	31.260	18.710	5.140	2.570	1.470	809	576

CAL YR 1973 TOTAL 48.237.5 MEAN 132 MAX 1.300 MIN 6.9 CFSM 1.69 IN 23.01 AC-FT 95.680
WTR YR 1974 TOTAL 98.320.3 MEAN 269 MAX 8.100 MIN 7.2 CFSM 3.45 IN 46.89 AC-FT 195.000

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0930	8.58	2,380	12-17	0930	6.39	1,460
11- 8	1000	7.12	1,750	1-15	1800	16.40	10,600
11-12	0730	7.37	1,850	1-18	1430	7.67	2,140
11-29	0600	6.85	1,640	3-30	0630	7.07	1,840
11-30	1400	7.57	1,930	4- 1	1230	7.57	2,080

14309500 WEST FORK COW CREEK NEAR GLENDALE, OREG.

LOCATION.--Lat 42°48'15", long 123°36'35", in SW¼NE¼ sec.11, T.32 S., R.8 W., Douglas County, on left bank 1.6 mi (2.6 km) downstream from Bear Creek, 11 mi (18 km) northwest of Glendale, and at mile 0.8 (1.3 km).

DRAINAGE AREA.--86.9 mi^2 (225.1 km^2).

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,000 ft (305 m), from topographic map. Prior to June 8, 1964, at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.--19 years, 292 ft^3/s (8.27 m^3/s), 45.63 in/yr (1,159 mm/yr), 211,600 acre-ft/yr (261 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,510 ft^3/s (269 m^3/s) Jan. 15, gage height, 14.28 ft (4.353 m); minimum, 6.2 ft^3/s (0.18 m^3/s) Sept. 21-30.

Period of record: Maximum discharge, 15,700 ft^3/s (445 m^3/s) Dec. 22, 1964, gage height, 18.59 ft (5.666 m), from floodmark, from rating curve extended above 2,600 ft^3/s (73.6 m^3/s) on basis of slope-area measurement of peak flow; minimum, 6.2 ft^3/s (0.18 m^3/s) Aug. 15, Sept. 13, 1973, Sept. 21-30, 1974.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1738: 1956, drainage area (former site). WSP 1935: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	123	1,920	522	1,360	2,250	1,610	86	37	22	11	8.1
2	14	86	1,130	400	941	1,490	1,340	84	35	22	11	8.1
3	13	60	761	335	640	955	955	82	34	22	11	7.6
4	12	273	576	277	562	703	710	78	36	21	11	7.2
5	12	1,430	458	242	510	717	580	75	80	20	11	7.2
6	12	2,070	371	208	445	1,140	495	71	63	21	11	7.2
7	13	775	1,640	186	389	857	430	68	53	21	10	7.2
8	14	2,480	1,110	166	346	622	389	65	48	24	10	7.2
9	14	1,990	663	152	313	500	350	63	45	27	10	7.2
10	13	2,080	475	142	281	455	309	65	43	25	9.7	8.1
11	13	2,450	528	132	257	568	285	63	42	23	9.7	8.1
12	13	3,570	938	522	243	1,180	273	62	39	22	9.3	8.1
13	13	2,190	1,920	3,730	222	1,070	250	63	37	20	9.7	7.2
14	12	2,390	1,720	3,000	209	1,290	232	62	35	19	9.7	6.8
15	12	2,620	1,330	8,170	243	1,670	215	68	35	18	9.7	6.8
16	12	2,340	997	7,380	808	1,270	200	68	35	18	9.7	6.5
17	11	1,370	1,670	3,320	773	1,060	188	78	34	18	9.7	6.5
18	11	826	1,140	1,970	1,300	787	182	78	32	18	9.3	6.5
19	11	552	747	1,540	2,300	604	173	75	31	17	9.7	6.5
20	12	1,100	1,540	1,050	1,300	505	158	68	31	16	9.7	6.5
21	55	1,410	3,210	766	800	440	148	65	29	15	9.7	6.5
22	95	1,020	2,160	592	661	393	143	62	29	14	9.3	6.2
23	58	796	1,340	490	580	350	136	59	29	14	8.9	6.2
24	62	1,180	890	425	520	321	131	54	29	14	8.9	6.2
25	47	1,230	789	389	500	309	115	49	28	14	8.5	6.2
26	35	1,350	642	393	600	305	111	45	28	13	8.5	6.2
27	29	997	546	371	900	337	105	44	27	13	8.1	6.2
28	33	1,270	607	358	2,500	1,300	97	43	26	13	7.6	6.5
29	53	1,970	1,330	337	------	1,470	95	41	25	12	7.6	6.5
30	37	2,100	1,120	313	------	2,190	91	40	23	12	8.1	6.5
31	31	------	740	703	------	1,400	------	39	------	12	8.1	------
TOTAL	787	44,098	35,008	38,581	20,503	28,508	10,496	1,963	1,098	560	295.2	207.8
MEAN	25.4	1,470	1,129	1,245	732	920	350	63.3	36.6	18.1	9.52	6.93
MAX	95	3,570	3,210	8,170	2,500	2,250	1,610	86	80	27	11	8.1
MIN	11	60	371	132	209	305	91	39	23	12	7.6	6.2
CFSM	.29	16.9	13.0	14.3	8.42	10.6	4.03	.73	.42	.21	.11	.08
IN.	.34	18.88	14.99	16.52	8.78	12.20	4.49	.84	.47	.24	.13	.09
AC-FT	1,560	87,470	69,440	76,530	40,670	56,550	20,820	3,890	2,180	1,110	586	412

CAL YR 1973 TOTAL 120,406.8 MEAN 330 MAX 3,570 MIN 6.5 CFSM 3.80 IN 51.56 AC-FT 238,800
WTR YR 1974 TOTAL 182,105.0 MEAN 499 MAX 8,170 MIN 6.2 CFSM 5.74 IN 77.96 AC-FT 361,200

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0630	8.24	3,160	1-13	0700	10.50	5,560
11- 8	1200	9.06	4,010	1-15	1430	14.28	9,510
11-12	0600	10.56	5,590	2-19	time & discharge unknown		
11-15	1500	7.81	2,740	3- 1	time & discharge unknown		
11-30	2130	7.66	2,610	3-30	1000	7.89	2,810
12-21	1200	8.71	3,680				

14310000 COW CREEK NEAR RIDDLE, OREG.

LOCATION.—Lat 42°55'25", long 123°25'40", in NE¼ sec.32, T.30 S., R.6 W., Douglas County, on left bank 0.4 mi (0.6 km) upstream from Council Creek, 3.8 mi (6.1 km) southwest of Riddle, and at mile 6.7 (10.8 km).

DRAINAGE AREA.—456 mi² (1,181 km²).

PERIOD OF RECORD.—September 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 682.60 ft (208.056 m) above mean sea level.

AVERAGE DISCHARGE.—20 years, 955 ft³/s (27.0 m³/s), 691,900 acre-ft/yr (853 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 38,400 ft³/s (1,090 m³/s) Jan. 15, gage height, 28.17 ft (8.586 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 25-30.

Period of record: Maximum discharge, 38,400 ft³/s (1,090 m³/s) Jan. 15, 1974, gage height, 28.17 ft (8.586 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 14, 1971, and many days in August and September 1973.

Flood of Oct. 29, 1950, reached a stage of about 28.5 ft (8.69 m), present site and datum, from slope-area measurement, discharge, 41,100 ft³/s (1,160 m³/s).

REMARKS.—Records excellent. No regulation. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).—WSP 1935: 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	177	8,340	2,190	3,240	7,850	6,260	527	207	94	46	31
2	41	200	4,350	1,730	2,730	6,210	5,840	514	200	92	44	31
3	41	158	2,890	1,480	2,100	3,910	3,840	481	192	92	44	30
4	40	292	2,190	1,260	1,830	2,850	2,850	462	188	90	46	30
5	40	2,430	1,760	1,110	1,700	2,520	2,400	444	241	88	48	28
6	41	7,300	1,460	970	1,500	3,500	2,010	425	232	88	46	28
7	45	3,000	3,660	853	1,340	3,180	1,680	407	207	88	44	28
8	46	6,840	3,980	790	1,220	2,490	1,510	396	192	96	42	27
9	46	6,240	2,620	727	1,130	2,030	1,420	378	185	108	42	27
10	48	7,130	1,950	664	1,050	1,760	1,280	367	177	104	40	28
11	45	6,490	1,830	629	993	1,870	1,160	356	167	99	40	29
12	45	12,700	2,520	1,260	940	3,790	1,120	345	161	92	38	28
13	45	7,130	6,750	16,300	895	4,700	1,050	345	155	88	38	27
14	43	6,740	5,930	14,200	832	4,470	978	329	145	81	38	27
15	42	6,960	4,270	32,200	797	5,630	918	339	140	77	38	26
16	42	7,460	3,320	33,100	1,370	4,420	874	334	140	73	38	25
17	41	4,720	5,000	17,100	1,670	3,490	825	350	140	71	38	25
18	40	3,020	4,350	9,380	1,850	2,770	818	367	140	71	36	24
19	40	2,110	2,990	7,500	4,390	2,250	783	356	132	70	36	24
20	42	2,830	3,470	4,800	3,150	1,910	741	339	129	66	36	24
21	142	4,810	8,830	3,580	2,610	1,650	706	318	123	65	34	24
22	334	3,830	7,490	2,620	2,770	1,460	671	307	116	61	34	23
23	232	2,910	4,180	2,180	2,340	1,340	685	292	121	59	34	24
24	258	3,620	2,940	1,870	2,040	1,220	769	278	121	59	34	23
25	196	3,810	2,650	1,690	2,020	1,170	748	268	116	56	34	23
26	142	4,860	2,350	1,590	2,110	1,140	685	254	111	56	34	22
27	116	3,620	2,100	1,460	3,410	1,180	643	245	113	55	33	22
28	106	3,680	2,180	1,380	8,710	3,940	601	237	106	53	31	22
29	142	6,520	3,860	1,300	------	5,430	567	232	101	56	30	23
30	137	7,770	3,690	1,200	------	9,220	540	224	99	52	30	23
31	121	------	2,820	1,530	------	6,000	------	215	------	49	30	------
TOTAL	2,782	141,357	116,720	168,563	60,737	105,350	44,972	10,731	4,597	2,349	1,176	776
MEAN	89.7	4,712	3,765	5,438	2,169	3,398	1,499	346	153	75.8	37.9	25.9
MAX	334	12,700	8,830	33,100	8,710	9,220	6,260	527	241	108	48	31
MIN	40	158	1,460	629	797	1,140	540	215	99	49	30	22
AC-FT	5,520	280,400	231,500	334,300	120,500	209,000	89,200	21,280	9,120	4,660	2,330	1,540

CAL YR 1973 TOTAL 379,198 MEAN 1,039 MAX 12,700 MIN 17 AC-FT 752,100
WTR YR 1974 TOTAL 660,110 MEAN 1,809 MAX 33,100 MIN 22 AC-FT 1,309,000

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1600	11.92	10,600	1-15	1930	28.17	38,400
11-12	0830	15.86	16,400	2-28	1530	12.23	11,300
11-30	2330	12.32	11,100	3-30	1300	12.53	11,700
12-21	2030	12.46	11,300				

14311000 NORTH MYRTLE CREEK NEAR MYRTLE CREEK, OREG.

LOCATION.--Lat 43°02'30", long 123°15'30", in SW¼ sec.14, T.29 S., R.5 W., Douglas County, on right bank 0.1 mi (0.2 km) downstream from Bilger Creek, 1.5 mi (2.4 km) northeast of town of Myrtle Creek, and at mile 2.1 (3.4 km).

DRAINAGE AREA.--54.2 mi² (140.4 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.18 ft (195.432 m) above mean sea level (Douglas County Road Department bench mark).

AVERAGE DISCHARGE.--19 years, 77.8 ft³/s (2.20 m³/s), 56,370 acre-ft/yr (69.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,290 ft³/s (64.9 m³/s) Jan. 15, gage height, 8.92 ft (2.72 m); minimum, 1.5 ft³/s (0.042 m³/s) Sept. 21.

Period of record: Maximum discharge, 3,260 ft³/s (92.3 m³/s) Jan. 20, 1964, gage height, 10.51 ft (3.203 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s); maximum gage height, 11.58 ft (3.530 m) Dec. 26, 1955 (backwater from debris); no flow for part of July 30, 1973, and probably at other times during periods of no gage-height record July 16-19, 27-30, 1973.

REMARKS.--Records good. No regulation. Several diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1738: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	27	479	208	158	423	400	50	28	8.8	2.5	3.6
2	3.0	22	322	162	164	389	300	47	26	11	2.5	2.6
3	3.0	17	254	134	156	318	220	45	24	8.5	2.9	2.5
4	3.0	19	200	111	187	275	160	41	28	7.6	2.9	3.1
5	3.2	331	165	95	187	266	140	39	37	7.9	3.4	3.4
6	3.6	558	136	79	170	504	140	37	31	8.2	4.6	3.3
7	4.0	254	308	68	152	389	120	34	28	8.8	3.9	3.6
8	3.8	654	322	61	136	288	110	33	26	13	3.4	3.6
9	3.6	387	251	56	124	230	130	32	23	16	3.7	4.6
10	3.6	334	197	51	114	194	135	31	22	13	3.6	5.0
11	3.8	404	159	47	107	172	138	30	21	13	2.4	4.6
12	3.6	720	192	66	101	227	141	31	19	12	2.1	3.4
13	3.5	468	454	423	94	273	131	29	19	11	2.9	3.3
14	3.6	423	434	839	93	417	117	29	19	9.2	3.3	3.1
15	3.6	370	345	1,690	87	507	105	33	21	7.3	3.1	2.8
16	3.7	353	273	1,780	95	343	97	34	20	7.6	3.3	2.6
17	3.8	281	294	1,160	107	278	91	61	18	8.8	3.3	2.3
18	4.0	227	256	697	198	227	86	63	17	9.9	3.0	2.1
19	4.5	170	216	456	298	194	81	63	16	9.2	5.7	2.0
20	6.8	243	192	332	263	166	78	57	16	8.2	6.4	2.3
21	46	420	186	261	256	130	73	52	15	6.2	4.8	2.1
22	30	448	165	215	256	110	68	48	15	4.6	4.2	2.3
23	19	434	141	183	237	95	71	45	17	4.6	3.9	2.4
24	18	558	131	162	210	90	89	41	14	5.7	3.6	2.7
25	16	615	162	154	185	90	80	38	15	4.6	3.7	2.6
26	12	612	159	143	222	100	73	36	15	3.9	3.0	2.4
27	10	440	170	139	254	110	67	34	15	4.1	3.0	2.6
28	16	387	224	139	360	200	60	33	12	3.1	2.7	2.7
29	24	519	378	134	------	250	56	31	12	3.6	2.8	3.1
30	16	582	325	127	------	400	53	30	10	3.7	2.7	3.7
31	14	------	264	127	------	300	------	29	------	2.8	2.9	------
TOTAL	295.7	11,269	7,754	10,299	4,971	7,955	3,610	1,236	599	245.9	106.2	90.4
MEAN	9.54	376	250	332	178	257	120	39.9	20.0	7.93	3.43	3.01
MAX	46	720	479	1,780	360	507	400	63	37	16	6.4	5.0
MIN	3.0	17	131	47	87	90	53	29	10	2.8	2.1	2.0
AC-FT	587	22,350	15,380	20,430	9,860	15,780	7,160	2,450	1,190	488	211	179

CAL YR 1973 TOTAL 29,865.95 MEAN 81.8 MAX 720 MIN .10 AC-FT 59,240
WTR YR 1974 TOTAL 48,431.20 MEAN 133 MAX 1,780 MIN 2.0 AC-FT 96,060

PEAK DISCHARGE (BASE, 1,100 CFS).--Jan. 15 (2230) 2,290 cfs (8.92 ft).

14311500 LOOKINGGLASS CREEK AT BROCKWAY, OREG.

LOCATION.--Lat 43°07'50", long 123°27'50", in SE¼SE¼ sec.13, T.28 S., R.7 W., Douglas County, on left bank 1.7 mi (2.7 km) northwest of Brockway and at mile 2.85 (4.59 km).

DRAINAGE AREA.--158 mi² (409 km²).

PERIOD OF RECORD.--October 1955 to current year

GAGE.--Water-stage recorder. Altitude of gage is 540 ft (165 m), from topographic map. Prior to Oct. 5, 1967, water-stage recorder at site 2.3 mi (3.7 km) downstream at different datum.

AVERAGE DISCHARGE.--19 years, 308 ft³/s (8.72 m³/s), 223,100 acre-ft/yr (275 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft³/s (300 m³/s) Jan. 15, gage height, 14.28 ft (4.353 m); no flow July 8, July 23 to Sept. 30.

Period of record: Maximum discharge, 35,000 ft³/s (991 m³/s) Dec. 26, 1955, gage height, 24.93 ft (7.599 m), site and datum then in use, from rating curve extended above 7,200 ft³/s (204 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 25.28 ft (7.705 m) Dec. 23, 1964 (backwater from South Umpqua River, site and datum then in use); no flow at times each year.

REMARKS.--Records good. No regulation. Many diversions by pumping for irrigation above station.

REVISIONS.--WSP 2135: Drainage area (former site).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	19	1,750	600	805	2,350	2,010	79	23	2.9		
2	1.4	30	1,010	474	820	2,190	2,260	74	22	2.1		
3	1.1	21	710	405	610	1,380	1,550	70	20	1.6		
4	.94	27	538	333	586	920	980	64	20	2.3		
5	.94	260	420	240	542	805	694	61	35	2.5		
6	.94	1,300	363	231	454	1,910	542	58	40	1.4		
7	1.1	554	1,780	197	381	1,290	417	54	33	.08		
8	1.2	2,960	1,300	175	328	865	348	51	29	0		
9	1.6	1,810	800	157	285	670	308	47	25	2.5		
10	1.7	2,070	594	140	255	542	258	47	22	4.2		
11	1.6	2,140	444	131	227	450	223	46	22	4.7		
12	1.6	3,350	1,000	253	209	900	199	44	18	4.7		
13	1.6	2,240	3,540	3,010	191	1,550	177	42	17	4.4		
14	1.6	2,560	2,420	3,910	185	2,780	161	42	15	3.2		
15	2.1	1,700	1,480	9,150	177	2,280	149	51	13	2.5		
16	1.6	1,470	1,000	8,370	486	1,230	140	54	11	2.1		
17	1.2	1,050	1,400	3,950	875	762	130	61	12	1.7		
18	1.1	810	1,100	2,240	1,210	566	128	67	11	1.7		
19	1.1	578	850	1,500	1,800	467	116	59	9.4	1.9		
20	1.2	1,140	1,100	1,020	1,410	372	107	52	8.2	1.7		
21	4.7	2,410	2,000	730	1,340	313	102	47	9.0	1.1		
22	14	1,840	1,870	562	1,390	258	94	45	8.2	.32		
23	15	1,220	1,240	450	1,030	213	105	41	7.0	0		
24	11	1,450	870	381	780	193	125	39	7.0	0		
25	9.0	1,600	820	366	650	173	125	37	5.9	0		
26	9.0	2,400	678	363	1,230	157	116	34	5.0	0		
27	7.8	1,420	622	340	1,520	161	109	32	5.0	0		
28	6.6	1,000	860	313	2,370	654	100	28	4.7	0		
29	6.2	1,690	2,000	285	------	1,110	92	28	3.9	0		
30	8.6	2,000	1,200	263	------	2,610	84	27	3.4	0		
31	12	------	800	360	------	1,590	------	25	------	0		------
TOTAL	131.42	43,309	36,598	40,943	22,146	31,691	11,949	1,506	464.7	49.60	0	0
MEAN	4.24	1,444	1,181	1,321	791	1,022	398	48.6	15.5	1.60	0	0
MAX	15	3,350	3,540	9,150	2,370	2,780	2,260	79	40	4.7	0	0
MIN	.94	19	363	131	177	157	84	25	3.4	0	0	0
AC-FT	261	85,900	72,590	81,210	43,930	62,860	23,700	2,990	922	98	0	0

CAL YR 1973 TOTAL 111,209.99 MEAN 305 MAX 3,540 MIN 0 AC-FT 220,600
WTR YR 1974 TOTAL 188,787.72 MEAN 517 MAX 9,150 MIN 0 AC-FT 374,500

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1300	9.93	5,430	2-28	1130	7.28	3,000
11-12	0800	8.93	4,430	3-14	1730	8.28	3,800
12-13	0430	8.93	4,430	3-30	1630	7.38	3,080
1-15	1800	14.28	10,600				

14312000 SOUTH UMPQUA RIVER NEAR BROCKWAY, OREG.

LOCATION.--Lat 43°08'00", long 123°23'50", in SW¼ sec.15, T.28 S., R.6 W., Douglas County, on right bank 40 ft (12 m) downstream from Winston Bridge on State Highway 99, 2.5 mi (4.0 km) northeast of Brockway, 4.2 mi (6.8 km) downstream from Lookingglass Creek, and at mile 132.8 (213.7 km).

DRAINAGE AREA.--1,670 mi² (4,325 km²).

PERIOD OF RECORD.--December 1905 to June 1912, October 1923 to September 1926, January 1942 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 462.52 ft (140.976 m) above mean sea level (State Highway Department bench mark). Prior to June 24, 1949, nonrecording gage at several sites within 400 ft (122 m) of present site at various datums. June 24, 1949, to Oct. 1, 1970, at datum 461.84 ft (140.769 m) above mean sea level (State Highway Department bench mark).

AVERAGE DISCHARGE.--40 years (1906-11, 1923-26, 1942-74), 2,956 ft³/s (83.7 m³/s), 24.04 in/yr (611 mm/yr), 2,142,000 acre-ft/yr (2.64 km³/yr).

EXTREMES.--Current year: Maximum discharge, 105,000 ft³/s (2,970 m³/s) Jan. 16, gage height, 32.64 ft (9.949 m); minimum, 57 ft³/s (1.61 m³/s) Sept. 28.

Period of record: Maximum discharge, 125,000 ft³/s (3,540 m³/s) Dec. 23, 1964, gage height, 34.28 ft (10.449 m); minimum, 25 ft³/s (0.71 m³/s) Aug. 17, 18, 1973.

Flood of Feb. 21, 1927, reached a stage of about 31.2 ft (9.51 m), present site and datum, discharge (revised), 89,500 ft³/s (2,530 m³/s). Discharge for flood of February 1890, which reached a stage 1.9 ft (0.60 m) higher, according to local resident who lived nearby at time of both floods, has been found to be in error and should not be used.

REMARKS.--Records good. No regulation. Many small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1248: 1946(M), 1948(M), 1951. WSP 1448: Drainage area. WRD Oreg. 1972: 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	645	25.600	6.160	8.610	19.400	20.300	2.370	1.300	431	128	86
2	137	1.310	14.800	6.250	8.640	17.400	22.300	2.390	1.360	439	120	86
3	130	880	9.960	5.230	6.690	12.100	15.100	2.200	1.450	420	114	83
4	127	724	7.890	4.420	5.950	8.780	10.800	2.070	1.440	400	114	79
5	127	3.770	6.400	3.840	5.950	7.630	8.420	2.070	1.790	367	109	77
6	126	22.200	5.550	3.320	5.160	12.600	7.370	2.290	2.230	359	111	76
7	127	10.900	11.400	2.880	4.530	11.800	6.200	2.480	1.930	351	109	76
8	132	23.400	16.300	2.620	4.040	8.610	5.370	2.490	1.620	351	108	77
9	151	19.700	10.500	2.410	3.690	6.730	5.050	2.400	1.400	379	105	79
10	149	18.700	7.990	2.170	3.480	5.630	4.690	2.180	1.290	395	105	77
11	139	19.300	6.780	2.000	3.290	5.270	4.300	1.930	1.280	363	103	85
12	133	30.800	7.610	2.490	3.090	6.420	4.750	1.810	1.340	335	99	88
13	132	20.800	18.400	27.100	2.960	13.500	4.490	1.730	1.350	314	99	89
14	132	17.500	16.200	33.500	2.730	15.300	3.980	1.570	1.300	293	97	88
15	130	16.800	12.600	76.900	2.660	25.600	3.590	1.610	1.270	272	100	88
16	123	16.900	10.700	88.700	3.490	17.400	3.300	1.600	1.170	255	100	86
17	121	13.800	14.000	49.100	5.270	14.300	3.050	1.740	1.070	244	105	75
18	120	9.680	14.200	28.800	6.160	11.800	3.060	1.770	1.030	237	103	71
19	117	6.930	9.990	23.700	14.800	8.900	3.020	1.720	971	244	105	69
20	121	7.410	9.140	16.100	12.600	7.290	2.810	1.610	908	230	115	67
21	183	13.500	15.900	11.500	9.630	6.140	2.600	1.480	796	215	115	68
22	908	11.900	16.600	8.640	9.910	5.330	2.490	1.410	718	198	114	68
23	1.080	9.190	10.900	7.000	8.130	4.780	2.590	1.370	700	178	112	68
24	1.040	12.000	8.250	5.890	6.800	4.280	2.680	1.360	667	171	103	67
25	1.050	12.400	8.730	5.330	6.160	4.010	2.880	1.360	625	171	99	67
26	766	15.900	8.110	5.230	7.560	4.010	2.590	1.520	595	167	100	67
27	560	12.100	7.170	4.960	10.000	4.030	2.390	1.730	550	163	90	66
28	460	12.400	10.900	4.870	16.500	8.970	2.200	1.790	550	161	84	59
29	500	21.400	16.300	4.640	------	14.000	2.090	1.660	500	155	80	64
30	673	24.700	15.100	4.280	------	25.100	2.140	1.500	460	155	79	80
31	536	------	10.800	4.330	------	20.200	------	1.370	------	141	85	------
TOTAL	10.378	407.639	364.670	450.440	188.480	339.310	166.800	56.580	33.660	8.554	3.210	2.276
MEAN	335	13.590	11.760	14.530	6.731	10.950	5.560	1.825	1.122	276	104	75.9
MAX	1.080	30.800	25.600	88.700	16.500	25.600	22.300	2.490	2.230	439	128	89
MIN	117	645	5.550	2.000	2.660	4.010	2.090	1.360	460	141	79	59
CFSM	.20	8.14	7.04	8.70	4.03	6.56	3.33	1.09	.67	.17	.06	.05
IN.	.23	9.08	8.12	10.03	4.20	7.56	3.72	1.26	.75	.19	.07	.05
AC-FT	20.580	808.600	723.300	893.400	373.900	673.000	330.800	112.200	66.760	16.970	6.370	4.510

CAL YR 1973 TOTAL 1.198.240 MEAN 3.283 MAX 30.800 MIN 26 CFSM 1.97 IN 26.69 AC-FT 2.377.000
WTR YR 1974 TOTAL 2.031.997 MEAN 5.567 MAX 88.700 MIN 59 CFSM 3.33 IN 45.26 AC-FT 4.030.000

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1430	16.09	29,300	12-21	2300	13.80	20,200
11- 8	1700	17.86	35,000	1-16	0300	32.64	105,000
11-12	1300	18.06	35,700	2-28	2100	14.48	22,900
12- 1	0100	16.71	31,100	3-15	0530	16.28	29,800
12- 7	2530	13.86	20,400	3-30	1730	16.50	30,500

14312400 SILENT CREEK NEAR DIAMOND LAKE, OREG.

LOCATION.--Lat 43°07'36", long 122°09'33", in T.28 S., R.6 E. (unsurveyed), Douglas County, in Umpqua National Forest, on right bank 25 ft (8 m) upstream from Summer Homes Road and 3.7 mi (6.0 km) southwest of town of Diamond Lake.

DRAINAGE AREA.--8.24 mi^2 (21.34 km^2).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft (1,580 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 50 ft^3/s (1.42 m^3/s) June 17, gage height, 3.77 ft (1.149 m); minimum, 24 ft^3/s (0.68 m^3/s) Jan. 6-14, Feb. 5-7, 13-15.

Period of record: Maximum discharge, 56 ft^3/s (1.59 m^3/s) June 2, 1972; maximum gage height, 3.77 ft (1.149 m) June 17, 1974; minimum discharge, 24 ft^3/s (0.68 m^3/s) Jan. 6-14, Feb. 5-7, 13-15, 1974.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	30	26	25	25	25	27	29	36	36	31	32
2	29	28	26	25	25	25	27	29	38	35	31	32
3	29	28	26	25	25	25	26	29	38	34	31	32
4	29	28	26	25	25	26	27	29	41	33	31	32
5	28	28	26	25	24	26	27	30	44	33	31	32
6	29	28	26	25	24	26	27	30	43	33	32	32
7	29	28	28	25	24	26	27	31	41	33	33	32
8	29	31	26	25	25	26	27	32	40	33	33	32
9	28	30	25	25	25	26	27	31	41	33	33	32
10	28	31	25	24	25	26	26	31	42	33	33	32
11	28	40	26	24	25	26	26	31	43	33	33	32
12	28	36	25	25	25	26	26	31	44	34	33	32
13	28	30	25	25	24	26	26	31	45	34	33	32
14	28	29	25	27	24	27	26	31	46	34	33	32
15	28	29	25	31	24	27	26	30	44	34	33	32
16	28	29	25	31	25	27	26	30	44	34	33	32
17	28	28	26	28	25	28	26	30	46	34	33	32
18	28	28	25	29	25	27	27	29	46	34	33	32
19	28	27	25	28	25	27	26	29	43	33	33	32
20	29	28	25	27	26	27	26	29	40	33	33	32
21	30	27	25	27	26	27	27	29	40	32	32	32
22	31	27	25	26	26	27	27	30	40	32	32	33
23	30	27	25	26	26	27	27	30	40	32	32	32
24	30	27	26	26	26	27	27	31	39	32	32	32
25	29	27	26	26	26	27	27	33	38	32	32	32
26	28	27	25	25	26	27	27	36	36	31	32	32
27	28	27	25	26	25	27	27	36	36	31	32	32
28	29	27	25	25	26	27	27	35	36	31	32	32
29	28	28	26	25	------	27	28	35	36	31	32	32
30	28	28	25	25	------	28	29	34	36	31	32	32
31	31	------	25	25	------	27	------	35	------	31	32	------
TOTAL	890	866	790	806	702	823	802	966	1,222	1,019	1,001	961
MEAN	28.7	28.9	25.5	26.0	25.1	26.5	26.7	31.2	40.7	32.9	32.3	32.0
MAX	31	40	28	31	26	28	29	36	46	36	33	33
MIN	28	27	25	24	24	25	26	29	36	31	31	32
AC-FT	1,770	1,720	1,570	1,600	1,390	1,630	1,590	1,920	2,420	2,020	1,990	1,910

CAL YR 1973 TOTAL 11,372 MEAN 31.2 MAX 40 MIN 25 AC-FT 22,560
WTR YR 1974 TOTAL 10,848 MEAN 29.7 MAX 46 MIN 24 AC-FT 21,520

14312450 DIAMOND LAKE NEAR DIAMOND LAKE, OREG.

LOCATION.--Lat 43°08'22", long 122°08'10", T.28 S., R.6 E. (unsurveyed), Douglas County, Umpqua National Forest, at shore of lake, at mouth of Short Creek and 2.7 mi (4.3 km) south of town of Diamond Lake.

DRAINAGE AREA.--54.9 mi^2 (142.2 km^2).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,180.27 ft (1,578.946 m) above mean sea level. Gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 77,140 acre-ft (95.1 hm^3) June 5, 6, elevation, 5,183.67 ft (1,579.983 m); minimum, 73,530 acre-ft (90.7 hm^3) May 4, elevation, 5,182.54 ft (1,579.638 m).
Period of record: Maximum contents 77,140 acre-ft (95.1 hm^3) June 5, 6, 1974, elevation, 5,183.67 ft (1,579.983 m); minimum, 73,020 acre-ft (90.0 hm^3) Nov. 9, 1971, elevation, 5,182.38 ft (1,579.589 m).

REMARKS.--Records good. Lake regulated by flash boards at outlet (Lake Creek). Flash boards are removed each fall and replaced after runoff each summer. Insignificant diversion from tributary streams for domestic use.

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,183.14	5,182.86	5,183.48	5,183.26	5,183.22	5,182.91	5,183.01	5,182.55	5,183.50	5,183.13	5,182.57	5,182.98
2	5,183.11	5,182.82	5,183.44	5,183.24	5,183.17	5,182.92	5,183.00	5,182.55	5,183.53	5,183.08	5,182.57	5,182.98
3	5,183.08	5,182.83	5,183.42		5,183.13	5,182.87	5,182.97	5,182.55	5,183.57	5,183.05	5,182.57	5,182.98
4	5,183.04	5,182.95	5,183.42		5,183.15	5,182.85	5,182.94	5,182.54	5,183.65	5,183.01	5,182.58	5,182.99
5	5,183.02	5,183.16	5,183.35		5,183.10	5,182.85	5,182.95	5,182.55	5,183.67	5,183.00	5,182.62	5,183.00
6	5,183.04	5,183.21	5,183.36		5,183.07	5,182.84	5,182.90	5,182.55	5,183.67	5,182.95	5,182.62	5,183.00
7	5,183.02	5,183.25	5,183.39		5,183.02	5,182.80	5,182.88	5,182.56	5,183.63	5,182.92	5,182.63	5,183.00
8	5,183.01	5,183.30	5,183.35	5,182.99	5,182.98	5,182.77	5,182.83	5,182.58	5,183.60	5,182.92	5,182.64	5,183.00
9	5,182.99	5,183.32	5,183.30	5,182.96	5,182.96	5,182.74	5,182.83	5,182.63	5,183.58	5,182.90	5,182.65	5,183.01
10	5,182.98	5,183.35	5,183.26	5,182.92	5,182.92	5,182.73	5,182.80	5,182.68	5,183.57	5,182.88	5,182.68	5,183.00
11	5,182.96	5,183.47	5,183.28	5,182.89	5,182.89	5,182.72	5,182.79	5,182.73	5,183.55	5,182.85	5,182.69	5,183.00
12	5,182.95	5,183.50	5,183.36	5,182.92	5,182.87	5,182.77	5,182.77	5,182.79	5,183.55	5,182.83	5,182.70	5,183.00
13	5,182.94	5,183.53	5,183.36	5,183.01	5,182.84	5,182.79	5,182.75	5,182.83	5,183.54	5,182.81	5,182.72	5,182.97
14	5,182.93	5,183.54	5,183.35	5,183.10	5,182.83	5,182.94	5,182.72	5,182.92	5,183.53	5,182.79	5,182.73	5,182.99
15	5,182.92	5,183.64	5,183.32	5,183.33	5,182.83	5,182.90	5,182.70	5,182.98	5,183.53	5,182.76	5,182.75	5,183.00
16	5,182.92	5,183.64	5,183.32	5,183.50	5,182.85	5,182.92	5,182.68	5,183.03	5,183.50	5,182.74	5,182.76	5,183.02
17	5,182.91	5,183.60	5,183.32	5,183.50	5,182.82	5,182.90	5,182.65	5,183.08	5,183.52	5,182.73	5,182.77	5,183.04
18	5,182.90	5,183.56	5,183.27	5,183.57	5,182.95	5,182.87	5,182.65	5,183.12	5,183.51	5,182.72	5,182.79	5,183.05
19	5,182.85	5,183.50	5,183.27	5,183.54	5,182.96	5,182.84	5,182.64	5,183.15	5,183.49	5,182.70	5,182.80	5,183.06
20	5,182.85	5,183.58	5,183.33	5,183.49	5,182.93	5,182.80	5,182.62	5,183.17	5,183.45	5,182.68	5,182.80	5,183.07
21	5,182.91	5,183.55	5,183.30	5,183.45	5,182.96	5,182.77	5,182.60	5,183.20	5,183.44	5,182.66	5,182.83	5,183.08
22	5,182.95	5,183.53	5,183.30	5,183.40	5,182.93	5,182.75	5,182.61	5,183.22	5,183.41	5,182.64	5,182.84	5,183.08
23	5,182.95	5,183.53	5,183.27	5,183.35	5,182.90	5,182.72	5,182.63	5,183.24	5,183.38	5,182.62	5,182.85	5,183.09
24	5,182.96	5,183.49	5,183.32	5,183.30	5,182.87	5,182.70	5,182.62	5,183.26	5,183.35	5,182.60	5,182.87	5,183.10
25	5,182.91	5,183.53	5,183.28	5,183.28	5,182.83	5,182.69	5,182.61	5,183.29	5,183.31	5,182.58	5,182.89	5,183.10
26	5,182.88	5,183.50	5,183.27	5,183.25	5,182.86	5,182.67	5,182.60	5,183.33	5,183.27	5,182.57	5,182.90	5,183.10
27	5,182.85	5,183.47	5,183.35	5,183.23	5,182.83	5,182.74	5,182.59	5,183.37	5,183.24	5,182.59	5,182.92	5,183.09
28	5,182.87	5,153.47	5,183.42	5,183.18	5,182.87	5,182.81	5,182.58	5,183.40	5,183.21	5,182.59	5,182.93	5,183.09
29	5,182.84	5,183.52	5,183.42	5,183.14	------	5,182.95	5,182.57	5,183.43	5,183.18	5,182.59	5,182.94	5,183.10
30	5,182.81	5,183.51	5,183.36	5,183.10	------	5,182.95	5,182.56	5,183.45	5,183.16	5,182.58	5,182.95	5,183.10
31	5,182.91	------	5,183.32	5,183.19	------	5,182.95	------	5,183.48	------	5,182.58	5,192.97	------
MEAN	5,182.95	5,182.39	5,183.34		5,182.95	5,182.82	5,182.74	5,182.97	5,183.47	5,182.78	5,182.76	5,183.04
MAX	5,183.14	5,183.64	5,183.48		5,183.22	5,182.95	5,183.01	5,183.48	5,183.67	5,183.13	5,182.97	5,183.10
MIN	5,182.81	5,153.47	5,183.26		5,182.82	5,182.67	5,182.56	5,182.54	5,183.16	5,182.57	5,182.57	5,182.97
(†)	74,710	76,630	76,020	75,610	74,580	74,840	73,590	76,540	75,510	73,660	74,900	75,320
(‡)	-900	+1,920	-610	-410	-1,030	+260	-1,250	+2,950	-1,030	-1,850	+1,240	+420

† Contents, in acre-feet, at end of month.
‡ Change in contents, in acre-feet.

14312500 LAKE CREEK NEAR DIAMOND LAKE, OREG.

LOCATION.--Lat 43°11'10", long 122°09'55", in NW¼SW¼ sec.30, T.27 S., R.6 E., Douglas County, Umpqua National Forest, on right bank 260 ft (79 m) downstream from outlet of Diamond Lake, 1.6 mi (2.6 km) northwest of town of Diamond Lake, and at mile 10.7 (17.2 km).

DRAINAGE AREA.--54.9 mi² (142.2 km²).

PERIOD OF RECORD.--May 1922 to September 1925 (no winter records), October 1926 to September 1929, April, July, August 1930, October 1930 to September 1953, October 1971 to current year. Prior to October 1971 published as "at Diamond Lake, near Fort Klamath."

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,580 m), from river-profile map. Prior to May 26, 1931, nonrecording gage at site 300 ft (91 m) downstream at different datum. May 26, 1931, to Oct. 6, 1933, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--29 years (1926-29, 1930-53, 1971-74), 56.6 ft³/s (1.60 m³/s), 41,010 acre-ft/yr (50.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 203 ft³/s (5.75 m³/s) Nov. 25, gage height, 1.85 ft (0.564 m); minimum, 6.1 ft³/s (0.17 m³/s) May 10.

Period of record: Maximum discharge observed, 336 ft³/s (9.52 m³/s) Jan. 1, 1943, gage height, 2.8 ft (0.85 m), from rating curve extended above 120 ft³/s (3.40 m³/s); no flow Aug. 25-27, 1931.

REMARKS.--Records fair. Flow regulated by gates and fish racks at lake outlet. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	99	132	131	121	88	106	67	71	110	49	18
2	68	96	127	124	118	90	105	66	74	105	49	18
3	65	94	121	117	113	88	101	66	76	100	36	18
4	63	105	115	111	111	88	99	65	87	98	18	19
5	60	120	111	104	109	87	92	65	140	96	19	20
6	59	132	107	102	103	87	96	65	181	90	20	22
7	55	125	113	97	98	85	94	67	177	87	11	24
8	53	127	114	98	96	82	91	52	174	90	7.3	24
9	49	133	104	98	93	78	90	22	167	94	7.6	24
10	49	110	104	94	90	77	87	15	174	92	7.8	23
11	50	110	103	91	87	76	85	10	184	90	8.1	23
12	49	125	103	94	85	79	83	7.6	181	87	8.3	24
13	47	135	111	102	83	82	81	9.4	174	83	8.6	36
14	45	148	107	109	82	92	78	12	170	83	9.1	37
15	43	153	105	135	81	93	77	15	170	79	9.6	37
16	42	154	100	167	83	94	76	18	170	77	9.9	40
17	41	151	102	165	82	94	74	21	170	77	11	42
18	63	138	100	166	87	91	74	24	167	77	11	42
19	98	135	96	170	92	88	74	25	163	76	11	45
20	98	143	98	161	92	86	72	27	160	74	12	47
21	102	155	101	153	92	83	71	29	156	72	13	49
22	109	150	100	145	93	80	69	31	153	72	14	53
23	112	150	99	138	91	78	70	32	144	71	14	50
24	116	143	97	132	88	77	71	35	141	69	15	49
25	107	167	99	128	85	77	70	37	138	56	16	45
26	104	142	97	125	85	75	69	42	132	49	16	42
27	100	139	101	123	86	76	69	47	126	49	16	52
28	99	129	105	119	86	87	68	50	121	49	16	50
29	97	135	137	115	------	93	67	55	118	50	16	47
30	94	133	150	110	------	99	67	59	116	52	17	45
31	95	------	139	113	------	99	------	64	------	50	17	------
TOTAL	2,303	3,976	3,399	3,839	2,612	2,649	2,426	1,200.0	4,375	2,404	493.3	1,065
MEAN	74.3	133	110	124	93.3	85.5	80.9	38.7	146	77.5	15.9	35.5
MAX	116	167	150	170	121	99	106	67	184	110	49	53
MIN	41	94	96	91	81	75	67	7.6	71	49	7.3	18
AC-FT	4,570	7,890	6,740	7,610	5,180	5,250	4,810	2,380	8,680	4,770	978	2,110

CAL YR 1973 TOTAL 23,552.0 MEAN 64.5 MAX 167 MIN 16 AC-FT 46,720
WTR YR 1974 TOTAL 30,741.3 MEAN 84.2 MAX 184 MIN 7.3 AC-FT 60,980

14313000 LEMOLO LAKE NEAR TOKETEE FALLS, OREG.

LOCATION.--Lat 43°19'10", long 122°11'20", in SE¼NW¼ sec.11, T.26 S., R.5 E., Douglas County, at Lemolo No. 1 diversion dam on North Umpqua River, 0.8 mi (1.3 km) downstream from Lake Creek, 13.0 mi (20.9 km) east of town of Toketee Falls, and at mile 93.01 (149.7 km).

DRAINAGE AREA.--170 mi^2 (440 km^2).

PERIOD OF RECORD.--July 1954 to current year. Prior to October 1960, published as Lemolo Reservoir near Toketee Falls.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Pacific Power & Light Co.).

EXTREMES.--Current year: Maximum contents observed, 13,520 acre-ft (16.7 hm^3) Aug. 11, 19, 20, elevation, 4.148.4 ft (1,264.43 m); minimum observed, 2,830 acre-ft (3.49 hm^3) Apr. 22, elevation, 4,113.0 ft (1,253.64 m).

Period of record: Maximum contents observed, 14,000 acre-ft (17.3 hm^3) Dec. 24, 1964, elevation, 4,149.5 ft (1,264.77 m); minimum observed, 11 acre-ft (13,600 m^3) Mar. 5, 1955, elevation, 4,055.4 ft (1,236.09 m).

REMARKS.--Lake is formed by Lemolo No. 1 diversion dam. Storage began July 15, 1954. Usable capacity for normal operation, 12,520 acre-ft (15.4 hm^3) between elevations 4,097.0 ft (1,248.77 m) and 4,148.5 ft (1,264.46 m). Dead storage below 4,097.0 ft (1,248.77 m), 1,040 acre-ft (1.28 hm^3). Water is used for power generation. Figures given herein represent total contents.

COOPERATION.--Gage readings furnished by Pacific Power & Light Co.

MONTHEND ELEVATION AND CONTENTS AT 0900, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	4,146.8	12,850	-
Oct. 31	4,139.6	10,100	-2,750
Nov. 30	4,137.9	9,520	-580
Dec. 31	4,141.4	10,750	+1,230
CAL YR 1973	-	-	+6,470
Jan. 31	4,142.4	11,120	+370
Feb. 28	4,130.0	6,990	-4,130
Mar. 31	4,119.1	4,040	-2,950
Apr. 30	4,115.7	3,310	-730
May 31	4,146.6	12,770	+9,460
June 30	4,145.8	12,440	-330
July 31	4,147.6	13,180	+740
Aug. 31	4,148.0	13,350	+170
Sept 30	4,148.0	13,350	0
WTR YR 1974	-	-	+500

14313500 NORTH UMPQUA RIVER BELOW LEMOLO LAKE, NEAR TOKETEE FALLS, OREG.

LOCATION.--Lat 43°19'20", long 122°11'40", in NW¼NW¼ sec.11, T.26 S., R.5 E., Douglas County, on right bank 0.4 mi (0.6 km) downstream from Lemolo Lake, 13 mi (21 km) east of town of Toketee Falls, and at mile 92.6 (148.9 km).

DRAINAGE AREA.--170 mi² (440 km²).

PERIOD OF RECORD.--October 1927 to December 1945, March 1946 to current year. Published as "below Lake Creek" prior to October 1952, as "below Lake Creek, near Toketee Falls" October 1952 to September 1953, and as "below Lemolo Reservoir near Toketee Falls" October 1953 to September 1960.

GAGE.--Water-stage recorder. Altitude of gage is 4,025 ft (1,227 m), from river-profile map. Prior to July 15, 1954, at site 1 mi (2 km) upstream at datum about 65 ft (19.8 m) higher. July 15, 1954, to Sept. 25, 1955, at site 400 ft (122 m) upstream at datum 14.11 ft (4.301 m) higher.

AVERAGE DISCHARGE.--46 years, 423 ft³/s (12.0 m³/s), 33.79 in/yr (858 mm/yr), 306,500 acre-ft/yr (378 hm³/yr), adjusted for storage.

EXTREMES (River only).--Current year: Maximum discharge, 951 ft³/s (26.9 m³/s) June 25, gage height, 6.98 ft (2.128 m); minimum, 18 ft³/s (0.51 m³/s) Feb. 25-28.

Period of record: Maximum discharge, 4,600 ft³/s (130 m³/s) Dec. 25, 1964, from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of slope-area measurement of peak flow, gage height, 9.20 ft (2.804 m), from floodmark; minimum, 6.4 ft³/s (0.18 m³/s) July 17, 1954.

(Combined flow).--Current year: Maximum daily discharge, 1,240 ft³/s (35.1 m³/s) June 6, 7; minimum daily, 114 ft³/s (3.23 m³/s) Nov. 12.

Period of record: Maximum discharge, 4,680 ft³/s (133 m³/s) Dec. 25, 1964, from river rating curve extended above 450 ft³/s (12.7 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 9.7 ft³/s (0.27 m³/s) May 13, 1955.

REMARKS.--Records good. Flow regulated since 1954 by Lemolo Lake (see station 14313000); also slightly regulated by Diamond Lake. All records given herein include flow in Lemolo No. 1 power canal which, beginning July 1955, diverts 0.4 mi (0.6 km) above station for power generation with return flow 4.3 mi (6.9 km) downstream.

REVISIONS.--WSP 1448: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	552	271	464	548	563	538	249	992	729	546	426
2	350	550	507	480	552	558	539	416	995	783	545	431
3	357	554	519	502	557	562	535	375	999	821	537	472
4	356	551	526	515	556	557	535	369	1,010	835	470	484
5	317	548	508	532	445	562	537	373	1,160	848	480	477
6	282	545	499	529	478	558	536	375	1,240	814	559	433
7	280	553	383	544	568	554	536	398	1,240	812	484	421
8	371	179	326	550	564	561	537	431	1,220	711	464	419
9	433	422	498	559	563	563	535	463	1,180	642	403	455
10	422	401	490	558	560	563	467	455	1,080	641	396	453
11	429	203	457	561	559	562	548	497	1,050	603	450	452
12	348	114	477	560	562	497	544	502	970	576	476	456
13	370	303	469	528	561	562	539	507	963	579	475	458
14	369	413	516	495	513	307	547	504	1,110	582	474	439
15	387	409	519	217	561	224	541	505	1,170	582	475	434
16	423	399	511	221	560	465	538	580	1,160	581	445	458
17	465	406	448	463	560	462	532	633	1,160	583	439	362
18	550	416	437	574	549	450	536	629	1,150	583	440	435
19	515	463	402	580	513	466	533	614	1,150	582	463	423
20	349	534	382	580	521	467	535	554	1,150	572	479	439
21	246	537	369	580	536	476	534	489	1,090	556	481	403
22	268	551	459	666	554	487	531	470	1,030	564	483	405
23	453	552	477	678	555	501	531	468	1,030	569	479	442
24	551	551	473	641	560	502	535	464	971	569	454	443
25	555	556	422	603	554	508	536	463	897	546	424	457
26	551	553	449	576	562	510	464	462	841	549	453	447
27	546	550	435	574	559	503	534	455	809	557	414	454
28	552	532	382	550	560	464	533	685	811	552	482	419
29	544	452	347	539	------	537	534	917	761	553	463	418
30	546	297	393	546	------	538	433	994	731	545	466	454
31	448	------	437	551	------	540	------	989	------	548	444	------
TOTAL	12,989	13,646	13,788	16,516	15,290	15,629	15,853	16,285	31,120	19,567	14,543	13,169
MEAN	419	455	445	533	546	504	528	525	1,037	631	469	439
MAX	555	556	526	678	568	563	548	994	1,240	848	559	484
MIN	246	114	271	217	445	224	433	249	731	545	396	362
AC-FT	25,760	27,070	27,350	32,760	30,330	31,000	31,440	32,300	61,730	38,810	28,850	26,120
MEAN†	374	445	465	539	472	456	516	679	1,032	643	472	439
CFSM†	2.20	2.62	2.74	3.17	2.78	2.68	3.04	3.99	6.07	3.78	2.78	2.58
IN.†	2.54	2.92	3.15	3.65	2.89	3.09	3.39	4.61	6.77	4.36	3.20	2.88
AC-FT†	23,010	26,490	28,580	33,130	26,[illegible]	28,050	30.710	41,760	61,400	39,550	29,020	26,120

CAL YR 1973 TOTAL 144,495 MEAN 396 MAX 566 MIN 19 AC-FT 286,600 MEAN† 405 CFSM† 2.38 IN.† 32.33 AC-FT† 293,070
WTR YR 1974 TOTAL 198,395 MEAN 544 MAX 1,240 MIN 114 AC-FT 393,500 MEAN† 544 CFSM† 3.20 IN.† 43.46 AC-FT† 394,000

† Adjusted for change in contents in Lemolo Lake.

14314500 CLEARWATER RIVER ABOVE TRAP CREEK, NEAR TOKETEE FALLS, OREG.

LOCATION.--Lat 43°14'40", long 122°17'10", in SW¼ sec.1, T.27 S., R.4 E., Douglas County, on right bank 900 ft (274 m) downstream from Clearwater No. 1 diversion dam, 0.4 mi (0.6 km) upstream from Trap Creek, 8.7 mi (14.0 km) east of town of Toketee Falls, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--41.6 mi^2 (107.7 km^2).

PERIOD OF RECORD.--October 1927 to December 1945, March 1946 to current year. Monthly discharge only December 1927 to March 1928, published in WSP 1318. Prior to October 1952, published as "above Trap Creek."

GAGE.--Water-stage recorder. Datum of gage is 3,862.84 ft (1,177.394 m) above mean sea level (levels by Pacific Power & Light Co.). Prior to Dec. 1, 1953, at two sites about 0.4 mi (0.6 km) downstream at different datums.

AVERAGE DISCHARGE.--46 years, 172 ft^3/s (4.87 m^3/s), 56.15 in/yr (1,426 mm/yr), 124,600 acre-ft/yr (154 hm^3/yr).

EXTREMES (River only).--Current year: Maximum discharge, 299 ft^3/s (8.47 m^3/s) May 27, gage height, 5.12 ft (1.561 m); minimum, 4.8 ft^3/s (0.136 m^3/s) Aug. 23, 24.

Period of record: Maximum discharge, 848 ft^3/s (24.0 m^3/s) Dec. 23, 1964, gage height, 7.19 ft (2.192 m); maximum gage height, 7.87 ft (2.399 m) Dec. 23, 1964, log jam; minimum discharge, 0.10 ft^3/s (0.003 m^3/s) Jan. 8-14, 19-21, 1954.

(Combined flow).--Current year: Maximum discharge, 487 ft^3/s (13.8 m^3/s) Jan. 16; minimum daily, 115 ft^3/s (3.26 m^3/s) Nov. 26.

Period of record: Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) Dec. 23, 1964; minimum daily, 91 ft^3/s (2.58 m^3/s) Nov. 4-6, 1931.

REMARKS.--Records good. All records given herein include flow in Clearwater No. 1 power canal, completed in June 1953, which diverts 900 ft (274 m) above station for generation of power and returns water to Clearwater River 2.5 mi (4.0 km) below station.

REVISIONS.--WSP 1124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	154	168	198	214	189	250	266	296	264	207	191
2	154	142	161	196	208	187	239	270	307	254	205	191
3	152	140	160	194	206	185	232	272	314	248	204	191
4	152	140	158	192	206	185	227	276	323	246	202	191
5	150	143	157	190	202	185	228	285	351	246	202	191
6	152	142	158	187	200	186	228	302	342	240	201	193
7	154	140	199	187	198	182	223	317	326	236	199	193
8	151	169	191	185	196	182	225	330	310	239	198	191
9	149	170	181	184	196	181	224	330	303	241	198	191
10	148	186	176	182	195	181	220	316	306	232	197	191
11	147	267	177	182	195	181	224	304	318	229	197	191
12	147	253	175	182	195	183	223	305	330	225	195	191
13	147	195	174	189	194	181	221	295	337	223	195	190
14	147	177	171	202	194	191	221	291	340	224	195	190
15	146	171	171	362	193	195	222	286	334	224	195	190
16	145	177	173	451	195	195	222	281	324	220	195	189
17	144	167	185	363	191	205	226	275	327	220	194	189
18	144	161	182	358	195	203	230	269	330	220	193	189
19	143	156	178	344	196	202	229	263	319	222	195	189
20	145	156	191	304	191	201	230	245	294	221	194	189
21	154	154	206	279	191	200	232	235	287	220	193	189
22	163	152	196	265	190	199	241	235	287	217	192	189
23	154	151	191	252	189	199	249	236	285	214	192	190
24	152	150	191	241	188	200	248	239	280	212	192	190
25	147	150	202	235	188	203	245	250	276	211	192	190
26	144	115	195	231	189	207	242	271	263	211	192	190
27	142	144	199	225	187	211	240	291	259	213	192	190
28	145	151	202	221	191	218	242	294	258	218	191	190
29	145	161	216	216	------	231	246	288	260	212	191	190
30	141	172	205	213	------	261	254	295	266	209	191	190
31	144	------	201	218	------	248	------	292	------	208	191	------
TOTAL	4,602	4,906	5,690	7,428	5,475	6,157	6,983	8,709	9,152	7,019	6,070	5,709
MEAN	148	164	184	240	196	199	233	281	305	226	196	190
MAX	163	267	216	451	214	261	254	330	351	264	207	193
MIN	141	115	157	182	187	181	220	235	258	208	191	189
CFSM	3.56	3.94	4.42	5.77	4.71	4.78	5.60	6.75	7.33	5.43	4.71	4.57
IN.	4.12	4.39	5.09	6.64	4.90	5.51	6.24	7.79	8.18	6.28	5.43	5.11
AC-FT	9,130	9,730	11,290	14,730	10,860	12,210	13,850	17,270	18,150	13,920	12,040	11,320

CAL YR 1973 TOTAL 64,333 MEAN 176 MAX 267 MIN 115 CFSM 4.23 IN 57.53 AC-FT 127,600
WTR YR 1974 TOTAL 77,900 MEAN 213 MAX 451 MIN 115 CFSM 5.12 IN 69.66 AC-FT 154,500

14316000 FISH CREEK AT BIG CAMAS RANGER STATION, NEAR TOKETEE FALLS, OREG.

LOCATION.--Lat 43°13'50", long 122°26'45", in SE¼ sec.10, T.27 S., R.3 E., Douglas County, on right bank 0.2 mi (0.3 km) upstream from Camas Creek, 0.7 mi (1.1 km) east of Big Camas ranger station, 3.2 mi (5.1 km) south of town of Toketee Falls, and at mile 4.7 (7.6 km).

DRAINAGE AREA.--68.8 mi² (178.2 km²).

PERIOD OF RECORD.--October 1947 to current year. Prior to October 1952, published as "at Big Camas ranger station."

GAGE.--Water-stage recorder. Datum of gage is 2,858.52 ft (871.277 m) above mean sea level (levels by Pacific Power & Light Co.). Prior to July 10, 1951, water-stage recorder and July 10 to Aug. 10, 1951, nonrecording gage, at site 1,000 ft (305 m) upstream at datum 13.72 ft (4.182 m) higher. Aug. 11 to Nov. 3, 1951, nonrecording gage at site 200 ft (61 m) downstream at different datum. Nov. 4, 1951, to Sept. 30, 1956, water-stage recorder at present site at datum 1.92 ft (0.585 m) higher.

AVERAGE DISCHARGE.--27 years, 244 ft³/s (6.91 m³/s), 48.16 in/yr (1,223 mm/yr), 176,800 acre-ft/yr (218 hm³/yr).

EXTREMES (River only).--Current year: Maximum discharge, 3,120 ft³/s (88.4 m³/s) Jan. 16, gage height, 8.61 ft (2.624 m); minimum, 4.1 ft³/s (0.12 m³/s) Oct. 11, 12.

Period of record: Maximum discharge, 12,100 ft³/s (343 m³/s) Dec. 22, 1964, gage height, 13.9 ft (4.24 m), from floodmark; minimum, 2.3 ft³/s (0.06 m³/s) Sept. 25, 1957.

(Combined flow).--Current year: Maximum discharge, 3,250 ft³/s (92.0 m³/s) Jan. 16; minimum daily, 36 ft³/s (1.02 m³/s) Oct. 16, 18, 19.

Period of record: Maximum discharge, 12,100 ft³/s (343 m³/s) Dec. 22, 1964; minimum daily, 35 ft³/s (0.99 m³/s) Nov. 27, 1952, Sept. 13, 14, 17, 1973.

REMARKS.--Records good. All records given herein include flow in Fish Creek power canal (diversion began June 18, 1952), which diverts water 2 mi (3 km) above station for power generation at Fish Creek powerplant; diversion discharged to North Umpqua River 600 ft (183 m) downstream from Toketee powerplant.

REVISIONS.--WSP 1448: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	230	692	362	331	205	717	471	546	377	139	78
2	41	142	505	305	295	197	619	455	626	345	135	79
3	40	117	424	266	277	183	525	437	649	323	132	78
4	38	110	377	242	267	178	469	447	705	312	129	76
5	38	154	336	230	251	179	487	526	856	306	127	75
6	41	191	341	200	236	186	505	641	759	293	125	74
7	59	183	1,020	162	226	171	413	699	664	277	121	73
8	44	931	833	131	225	166	395	719	588	280	126	74
9	42	865	580	126	208	161	386	674	564	287	123	72
10	40	1,140	487	128	204	159	355	571	606	259	122	72
11	41	2,240	479	143	207	162	348	534	701	247	120	70
12	37	2,030	445	169	197	177	344	518	766	233	117	69
13	38	899	403	269	189	171	328	457	783	226	117	67
14	38	604	358	431	189	369	320	416	790	220	116	67
15	37	615	346	1,340	188	603	316	395	743	217	114	67
16	36	668	369	2,960	217	630	304	358	691	210	116	66
17	37	525	573	1,740	200	814	320	330	696	208	107	66
18	36	428	489	1,360	231	706	363	303	703	202	107	65
19	36	354	404	1,200	354	581	357	283	670	198	107	64
20	46	324	532	874	293	510	342	272	565	192	103	64
21	113	281	719	678	269	461	341	267	529	186	97	63
22	181	252	537	569	242	429	374	270	518	180	96	63
23	148	229	442	490	222	398	392	291	504	173	94	62
24	161	212	424	433	210	384	376	324	479	169	91	61
25	127	201	562	405	205	408	347	425	455	164	89	61
26	94	187	444	371	204	440	323	558	400	160	88	61
27	80	220	505	344	192	467	301	636	379	164	86	61
28	103	311	621	319	212	553	296	612	367	172	85	60
29	106	549	863	298	------	693	330	553	366	153	83	60
30	86	812	606	280	------	977	399	512	383	148	82	60
31	133	------	450	310	------	761	------	496	------	143	80	------
TOTAL	2,138	16,004	16,166	17,135	6,541	12,479	11,692	14,450	18,051	7,024	3,374	2,028
MEAN	69.0	533	521	553	234	403	390	466	602	227	109	67.6
MAX	181	2,240	1,020	2,960	354	977	717	719	856	377	139	79
MIN	36	110	336	126	188	159	296	267	366	143	80	60
CFSM	1.00	7.75	7.57	8.04	3.40	5.86	5.67	6.77	8.75	3.30	1.58	.98
IN.	1.16	8.65	8.74	9.26	3.54	6.75	6.32	7.81	9.76	3.80	1.82	1.10
AC-FT	4,240	31,740	32,070	33,990	12,970	24,750	23,190	28,660	35,800	13,930	6,690	4,020

CAL YR 1973 TOTAL 71,789 MEAN 197 MAX 2,240 MIN 35 CFSM 2.86 IN 38.82 AC-FT 142,400
WTR YR 1974 TOTAL 127,082 MEAN 348 MAX 2,960 MIN 36 CFSM 5.06 IN 68.71 AC-FT 252,100

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-11	2030	-	2,910	12-29	0900	-	965
11-30	1100	-	932	1-16	1400	-	3,250
12- 7	1500	-	1,340	3-30	0800	-	1,050

14316500 NORTH UMPQUA RIVER ABOVE COPELAND CREEK, NEAR TOKETEE FALLS, OREG.

LOCATION.--Lat 43°17'45", long 122°32'10", in NW¼ sec.24, T.26 S., R.2 E., Douglas County, on right bank 0.6 mi (1.0 km) upstream from Copeland Creek, 4.7 mi (7.6 km) west of town of Toketee Falls, and at mile 67.2 (108.1 km).

DRAINAGE AREA.--475 mi² (1,230 km²).

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only September 1949, published in WSP 1318. Prior to October 1952, published as "above Copeland Creek."

GAGE.--Water-stage recorder. Altitude of gage is 1,580 ft (482 m), from river-profile map.

AVERAGE DISCHARGE.--25 years, 1,550 ft³/s (43.9 m³/s), 1,123,000 acre-ft/yr (1.38 km³/yr).

EXTREMES.--Current year: Maximum discharge, 9,410 ft³/s (266 m³/s) Jan. 15, gage height, 11.63 ft (3.545 m); minimum, 655 ft³/s (18.5 m³/s) Oct. 7-9, 15, 20; minimum daily, 715 ft³/s (20.2 m³/s) Oct. 3, 20.

Period of record: Maximum discharge, 40,700 ft³/s (1,150 m³/s) Dec. 22, 1964, gage height, 19.1 ft (5.82 m), from floodmark, from rating curve extended above 7,200 ft³/s (204 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 565 ft³/s (16.0 m³/s) Sept. 13, 1959.

REMARKS.--Records excellent. Considerable fluctuation caused by powerplants upstream; flow slightly regulated by Diamond Lake and by Lemolo Lake (see station 14313000). No diversion above station.

REVISIONS (WATER YEARS).--WSP 1448: 1953(M), 1954, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	786	1,290	3,230	2,560	2,220	1,770	3,520	2,270	2,780	1,960	1,240	1,020
2	786	1,220	2,500	2,220	1,990	1,770	3,260	2,280	3,030	1,830	1,240	1,030
3	715	1,160	2,260	2,020	1,950	1,600	2,870	2,240	3,140	1,800	1,140	1,030
4	720	1,130	2,050	1,980	1,840	1,580	2,500	2,230	3,270	1,740	1,150	1,040
5	744	1,340	1,800	1,870	1,700	1,600	2,460	2,370	4,110	1,790	1,220	1,030
6	750	1,640	1,910	1,730	1,600	1,790	2,500	2,810	3,790	1,790	1,170	1,100
7	726	1,370	3,470	1,590	1,650	1,600	2,360	3,050	3,470	1,810	1,120	1,000
8	816	2,700	3,340	1,560	1,660	1,600	2,280	3,090	3,170	1,650	1,080	1,000
9	810	2,810	2,780	1,620	1,650	1,570	2,270	2,990	3,050	1,680	1,100	990
10	864	3,030	2,520	1,600	1,600	1,510	2,080	2,650	3,030	1,580	1,130	978
11	876	3,790	2,410	1,440	1,640	1,440	2,180	2,570	3,220	1,570	1,100	1,060
12	774	4,300	2,370	1,520	1,640	1,530	2,330	2,490	3,340	1,520	1,100	1,020
13	816	3,140	2,330	2,020	1,610	1,620	2,230	2,300	3,430	1,400	1,100	1,030
14	768	2,510	2,190	2,840	1,580	2,430	2,140	2,170	3,520	1,410	1,100	1,000
15	750	2,560	2,190	8,760	1,600	3,530	2,090	2,140	3,470	1,470	1,100	996
16	846	2,740	2,330	8,680	1,670	3,520	2,000	2,050	3,250	1,410	1,130	996
17	906	2,440	3,160	6,440	1,670	3,870	1,990	2,020	3,230	1,400	1,090	960
18	966	2,070	2,870	5,400	1,730	3,430	2,170	1,960	3,260	1,450	1,060	978
19	930	1,770	2,560	5,240	2,380	2,900	2,200	1,930	3,190	1,450	1,030	954
20	715	1,680	2,600	4,070	2,160	2,610	2,110	1,910	2,830	1,420	1,140	984
21	990	1,690	3,070	3,320	1,930	2,430	2,050	1,680	2,700	1,360	1,120	978
22	990	1,650	2,740	2,900	1,800	2,350	2,160	1,720	2,590	1,340	1,070	984
23	1,150	1,520	2,480	2,720	1,690	2,220	2,190	1,710	2,530	1,290	1,090	954
24	1,180	1,540	2,400	2,440	1,580	2,140	2,180	1,800	2,420	1,310	1,060	1,000
25	1,230	1,540	3,130	2,310	1,590	2,110	2,130	2,020	2,240	1,380	1,040	990
26	1,020	1,510	2,700	2,200	1,680	2,280	2,080	2,400	2,100	1,340	1,080	942
27	1,000	1,560	2,840	2,140	1,620	2,350	2,030	2,700	2,050	1,210	1,100	1,040
28	1,050	2,080	3,750	2,020	1,710	2,630	1,950	2,730	1,940	1,270	1,070	960
29	1,110	3,290	4,410	1,850	------	2,910	[illegible]	2,790	1,920	1,340	1,070	918
30	1,040	3,780	3,700	1,830	------	4,100	2,050	2,770	1,930	1,300	1,060	942
31	1,070	------	2,990	1,980	------	3,580	------	2,710	------	1,260	1,020	------
TOTAL	27,894	64,850	85,080	90,870	49,140	72,370	68,300	72,550	88,000	46,530	34,320	29,904
MEAN	900	2,162	2,745	2,931	1,755	2,335	2,277	2,340	2,933	1,501	1,107	997
MAX	1,230	4,300	4,410	8,760	2,380	4,100	3,520	3,090	4,110	1,960	1,240	1,100
MIN	715	1,130	1,800	1,440	1,580	1,440	1,940	1,680	1,920	1,210	1,020	918
AC-FT	55,330	128,600	168,800	180,200	97,470	143,500	135,500	143,900	174,500	92,290	68,070	59,310

CAL YR 1973 TOTAL 486,618 MEAN 1,333 MAX 4,410 MIN 655 AC-FT 965,200
WTR YR 1974 TOTAL 729,808 MEAN 1,999 MAX 8,760 MIN 715 AC-FT 1,448,000

14316700 STEAMBOAT CREEK NEAR GLIDE, OREG.

LOCATION.--Lat 43°21'00", long 122°43'40", in NW¼ sec.32, T.25½ S., R.1 E., Douglas County, in Umpqua National Forest, on right bank in Canton Creek Forest Service Park, 200 ft (61 m) downstream from Canton Creek, 19 mi (31 km) northeast of Glide, and at mile 0.5 (0.8 km).

DRAINAGE AREA.--227 mi² (588 km²).

PERIOD OF RECORD.--Annual maximum, water year 1956, June 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,128.55 ft (343.982 m) above mean sea level (levels by Bureau of Public Roads). Oct. 7, 1955, to June 13, 1956, nonrecording gage at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--18 years, 759 ft³/s (21.5 m³/s), 45.41 in/yr (1,153 mm/yr), 549,900 acre-ft/yr (678 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,000 ft³/s (396 m³/s) Jan. 15, gage height, 12.23 ft (3.728 m); minimum, 34 ft³/s (0.96 m³/s) Sept. 26-29.

Period of record: Maximum discharge, 51,000 ft³/s (1,440 m³/s) Dec. 22, 1964, gage height, 25.6 ft (7.80 m), from floodmark, from rating curve extended above 13,000 ft³/s (368 m³/s), on basis of slope-area measurement at 17.96 ft (5.474 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 15-17, 1973.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	1.260	3.920	1.600	3.750	1.600	3.870	780	485	172	64	46
2	61	605	2.370	1.170	2.310	1.700	3.760	720	570	157	61	45
3	58	414	1.800	944	1.560	1.240	2.730	630	570	146	61	43
4	54	520	1.610	788	1.550	1.000	2.120	640	630	139	60	43
5	52	1.670	1.310	675	1.460	1.650	1.950	806	1.200	135	60	43
6	58	2.930	1.560	580	1.130	3.410	2.110	979	1.010	132	60	42
7	82	1.780	7.550	526	937	1.890	1.640	958	734	126	59	42
8	67	6.480	4.210	485	824	1.250	1.370	909	575	128	57	41
9	58	5.520	2.400	449	854	965	1.400	794	512	139	57	42
10	54	5.310	1.970	406	937	854	1.260	610	517	124	56	45
11	51	4.380	1.940	390	930	923	1.520	550	570	122	55	43
12	51	5.660	1.840	503	842	1.540	2.040	580	585	112	55	42
13	52	3.430	2.140	3.700	722	1.590	1.400	512	555	106	55	41
14	49	3.300	2.170	5.510	686	4.980	1.200	467	535	103	55	40
15	48	4.560	2.690	11.000	758	6.910	1.000	530	476	101	55	39
16	46	5.190	3.200	10.000	1.750	5.190	960	512	411	97	54	39
17	45	2.950	5.690	6.560	1.610	5.600	940	530	415	99	54	39
18	45	1.770	3.270	4.770	2.220	3.360	1.000	526	398	99	52	37
19	45	1.160	2.110	5.030	5.450	2.410	900	508	370	95	57	37
20	94	1.350	2.660	2.900	2.650	2.030	840	499	308	90	60	37
21	980	1.440	4.140	1.950	1.850	1.650	820	476	271	87	57	36
22	688	1.200	2.580	1.400	1.440	1.470	840	463	264	84	55	36
23	435	1.120	2.540	1.090	1.120	1.240	860	481	248	82	52	36
24	616	1.380	2.360	916	979	1.110	820	490	227	79	51	35
25	605	1.600	4.000	916	1.040	1.240	760	565	216	77	50	35
26	372	1.510	2.250	1.070	1.360	1.380	700	698	194	76	48	34
27	252	2.140	3.070	1.040	1.280	1.370	620	716	179	74	47	34
28	259	4.340	5.760	1.100	1.360	2.090	600	630	174	71	47	34
29	393	6.170	6.640	1.140	------	2.840	720	530	170	70	46	35
30	276	5.460	4.300	1.010	------	4.400	800	454	179	68	46	35
31	384	------	2.380	2.530	------	3.190	------	432	------	66	46	------
TOTAL	6.397	86.599	96.430	72.148	43.359	72.072	41.550	18.975	13.548	3.256	1.692	1.176
MEAN	206	2.887	3.111	2.327	1.549	2.325	1.385	612	452	105	54.6	39.2
MAX	980	6.480	7.550	11.000	5.450	6.910	3.870	979	1.200	172	64	46
MIN	45	414	1.310	390	686	854	600	432	170	66	46	34
CFSM	.91	12.7	13.7	10.3	6.82	10.2	6.10	2.70	1.99	.46	.24	.17
IN.	1.05	14.19	15.80	11.82	7.11	11.81	6.81	3.11	2.22	.53	.28	.19
AC-FT	12.690	171.800	191.300	143.100	86.000	143.000	82.410	37.640	26.870	6.460	3.360	2.330

CAL YR 1973 TOTAL 304.386 MEAN 834 MAX 7.550 MIN 30 CFSM 3.67 IN 49.88 AC-FT 603.700
WTR YR 1974 TOTAL 457.202 MEAN 1.253 MAX 11.000 MIN 34 CFSM 5.52 IN 74.92 AC-FT 906.900

PEAK DISCHARGE (BASE, 4,800 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1330	9.70	9,010	12-25	0200	7.31	5,200
11-12	1200	8.31	6,740	12-29	1730	8.88	7,650
11-16	1000	8.06	6,340	1-15	2130	12.23	14,000
11-29	0100	8.64	7,260	2-19	0330	8.79	7,500
12- 7	1200	11.26	12,000	3-14	2300	10.05	9,680
12-17	0930	8.75	7,440	3-30	1030	7.07	4,860
12-21	0300	7.04	4.820				

14318000 LITTLE RIVER AT PEEL, OREG.

LOCATION.--Lat 43°15'10", long 123°01'30", in NW¼ sec.2, T.27 S., R.3 W., Douglas County, on left bank 0.6 mi (1.0 km) southeast of Peel, 0.9 mi (1.5 km) downstream from Cavitt Creek, and at mile 6.3 (10.1 km).

DRAINAGE AREA.--177 mi² (458 km²).

PERIOD OF RECORD.--August 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.33 ft (252.475 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 489 ft³/s (13.8 m³/s), 37.52 in/yr (953 mm/yr), 354,300 acre-ft/yr (437 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 ft³/s (357 m³/s) Jan. 15, gage height, 15.54 ft (4.737 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 25-27.

Period of record: Maximum discharge, 21,100 ft³/s (598 m³/s) Dec. 11, 1956, gage height, 19.63 ft (5.983 m), from rating curve extended above 5,900 ft³/s (167 m³/s) on basis of slope-area measurement at gage height 16.55 ft (5.044 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 2, 9, 10, 28, 29, 1967, Sept. 25-27, 1974.

Flood of Nov. 22, 23, 1953, reached a stage of 20.6 ft (6.28 m), from floodmark, discharge, 22,700 ft³/s (643 m³/s), from rating curve extended above 5,900 ft³/s (167 m³/s) on basis of slope-area measurement at gage height 16.55 ft (5.044 m).

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation. Small diversions for rural domestic use and irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	650	2,800	1,010	1,530	1,410	2,960	650	242	90	31	20
2	31	371	1,640	772	1,210	1,290	2,440	600	252	80	29	20
3	29	249	1,230	628	928	958	1,700	540	249	75	29	19
4	28	280	1,050	515	1,200	802	1,270	540	427	70	28	19
5	27	2,420	868	436	1,080	910	1,110	600	557	70	28	19
6	29	3,530	910	367	838	1,910	1,080	750	418	70	28	19
7	38	1,490	3,220	331	689	1,220	922	800	331	65	27	19
8	34	4,630	2,410	298	601	874	820	750	287	70	27	18
9	29	3,140	1,470	270	562	700	970	700	266	70	27	19
10	27	2,950	1,140	242	540	606	952	600	256	65	27	20
11	26	2,670	1,050	233	505	650	1,100	520	239	63	25	20
12	27	4,160	1,070	305	475	1,240	1,370	500	260	59	26	19
13	27	2,730	1,890	2,470	422	1,250	1,060	420	260	58	27	17
14	25	2,510	1,460	3,490	427	3,470	856	400	250	55	26	17
15	24	2,660	1,460	9,550	440	4,470	745	420	220	52	26	16
16	23	3,130	1,520	8,160	749	2,860	680	400	220	51	24	16
17	22	2,050	2,390	4,910	784	2,940	680	400	200	52	23	16
18	22	1,330	1,770	3,260	1,790	2,060	700	380	200	52	24	16
19	23	910	1,220	3,280	2,660	1,450	650	350	180	50	28	16
20	59	1,090	1,210	2,150	1,620	1,150	600	347	160	47	29	16
21	510	1,260	1,540	1,450	1,220	958	570	339	150	44	27	16
22	371	1,190	1,170	1,060	1,010	844	600	335	140	42	25	15
23	284	1,200	964	838	826	738	600	323	130	41	23	16
24	363	1,610	868	700	727	661	600	312	120	41	23	15
25	280	1,780	1,580	683	733	672	540	323	110	39	22	14
26	188	1,590	1,170	722	946	722	500	351	100	38	22	14
27	135	1,790	1,310	733	922	796	450	355	95	37	21	14
28	188	2,800	2,180	796	1,130	1,660	430	331	90	35	20	15
29	256	4,760	2,920	727	------	1,750	450	294	90	34	20	15
30	175	3,940	2,140	639	------	2,960	550	263	95	33	20	15
31	163	------	1,420	982	------	2,170	------	245	------	32	21	------
TOTAL	3,497	64,860	49,040	52,007	26,564	46,151	27,955	14,138	6,594	1,680	783	510
MEAN	113	2,162	1,582	1,678	949	1,489	932	456	220	54.2	25.3	17.0
MAX	510	4,760	3,220	9,550	2,660	4,470	2,960	800	557	90	31	20
MIN	22	249	868	233	422	606	430	245	90	32	20	14
CFSM	.64	12.2	8.94	9.48	5.36	8.41	5.27	2.58	1.24	.31	.14	.10
IN.	.73	13.63	10.31	10.93	5.58	9.70	5.88	2.97	1.39	.35	.16	.11
AC-FT	6,940	128,600	97,270	103,200	52,690	91,540	55,450	28,040	13,080	3,330	1,550	1,010

CAL YR 1973 TOTAL 188,705 MEAN 517 MAX 4,760 MIN 15 CFSM 2.92 IN 39.66 AC-FT 374,300
WTR YR 1974 TOTAL 293,779 MEAN 805 MAX 9,550 MIN 14 CFSM 4.55 IN 61.74 AC-FT 582,700

NOTE.--No gage-height record Apr. 16 to May 20 and June 12 to July 11.

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1230	10.62	6,530	3-14	2200	10.80	6,760
1-15	1900	15.54	12,600				

14319500 NORTH UMPQUA RIVER AT WINCHESTER, OREG.

LOCATION.--Lat 43°16'20", long 123°24'40", in NW¼NW¼ sec.33, T.26 S., R.6 W., Douglas County, on left bank 400 ft (122 m) downstream from county bridge, 3.0 mi (4.8 km) west of Winchester, and at mile 1.8 (2.9 km).

DRAINAGE AREA.--1,344 mi² (3,481 km²).

PERIOD OF RECORD.--October 1908 to December 1913, October 1923 to September 1929, August 1934 to current year. Prior to December 1908, monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 372.97 ft (113.681 m) above mean sea level (Douglas County Road Department bench mark). Oct. 1, 1908, to Dec. 31, 1913, and Oct. 1, 1923, to Sept. 30, 1929, nonrecording gage at site 4.8 mi (7.7 km) upstream at different datums. Aug. 27, 1934, to Aug. 12, 1965, water-stage recorder on right bank at same datum.

AVERAGE DISCHARGE.--31 years, 3,776 ft³/s (107 m³/s), 2,736,000 acre-ft/yr (3.37 km³/yr).

EXTREMES.--Current year: Maximum discharge, 71,400 ft³/s (2,020 m³/s) Jan. 16, gage height, 23.36 ft (7.120 m); minimum, 762 ft³/s (21.6 m³/s) Oct. 17.

Period of record: Maximum discharge, 150,000 ft³/s (4,250 m³/s) Dec. 22, 1964, gage height, 34.2 ft (10.42 m), from floodmark; minimum, 383 ft³/s (10.8 m³/s) Sept. 25, 1960; minimum daily, 578 ft³/s (16.4 m³/s) Sept. 14, 1939.

Flood of Oct. 29, 1950, reached a stage of 23.2 ft (7.07 m), from floodmark, at site 4.8 mi (7.7 km) upstream at different datum, discharge, 88,000 ft³/s (2,490 m³/s). Flood of Nov. 23, 1953, reached a stage of 28.4 ft (8.66 m), from floodmarks, present site and datum, discharge, 93,300 ft³/s (2,640 m³/s).

REMARKS.--Records excellent. Diurnal fluctuation caused by upstream powerplants; slight regulation by Lemolo Lake (see station 14313000) and Diamond Lake. Several small diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1448: 1909-12, drainage area. WRD Oreg. 1972: 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	948	3,870	19,200	8,480	12,200	8,380	16,900	4,540	3,960	2,420	1,370	1,080
2	932	3,300	11,900	6,700	9,770	8,600	17,600	4,480	4,300	2,330	1,350	1,080
3	916	2,540	8,780	5,550	7,250	7,030	12,900	4,220	4,560	2,220	1,340	1,080
4	853	2,310	7,700	4,880	7,180	5,820	9,890	4,060	4,560	2,150	1,260	1,080
5	839	6,800	6,520	4,340	7,450	5,970	8,300	4,260	6,280	2,070	1,260	1,090
6	868	16,300	6,210	3,860	6,080	13,300	8,430	4,900	6,740	2,120	1,330	1,080
7	924	8,450	18,500	3,510	5,200	9,230	7,480	5,420	5,770	2,120	1,280	1,150
8	916	20,500	18,800	3,190	4,760	6,630	6,630	5,510	5,060	2,110	1,210	1,060
9	948	20,000	11,200	3,050	4,480	5,440	6,870	5,330	4,600	2,020	1,170	1,050
10	940	19,900	8,600	2,920	4,380	4,780	6,650	4,740	4,420	2,050	1,210	1,050
11	980	16,900	7,630	2,750	4,340	4,600	6,300	4,240	4,560	1,870	1,230	1,040
12	996	24,100	8,180	2,890	4,200	6,280	8,050	4,140	4,840	1,840	1,190	1,120
13	892	18,000	12,700	11,000	4,000	8,050	7,070	3,950	4,780	1,760	1,200	1,080
14	932	14,900	10,800	19,400	3,770	14,200	6,100	3,570	4,840	1,610	1,210	1,080
15	876	17,800	10,500	48,400	3,840	28,500	5,490	3,750	4,860	1,690	1,190	1,050
16	846	17,800	10,900	63,000	5,310	19,100	5,100	3,640	4,500	1,680	1,190	1,040
17	932	14,000	17,400	35,400	6,560	19,600	4,740	3,770	4,340	1,670	1,240	1,040
18	996	9,350	14,600	21,200	8,280	14,900	4,920	3,770	4,340	1,640	1,180	1,000
19	1,060	6,650	9,950	21,900	18,400	10,800	5,040	3,680	4,260	1,690	1,170	1,020
20	1,080	7,030	9,200	15,300	12,400	8,700	4,780	3,590	3,960	1,660	1,140	996
21	1,420	9,410	13,800	10,700	9,110	7,450	4,380	3,370	3,590	1,630	1,270	1,030
22	3,600	8,450	10,900	8,180	8,100	6,700	4,440	3,050	3,390	1,550	1,200	1,020
23	2,110	7,250	9,260	6,870	6,610	6,120	4,600	3,080	3,300	1,510	1,160	1,020
24	2,420	9,260	8,080	5,930	5,620	5,510	4,680	3,170	3,170	1,440	1,160	996
25	2,720	9,440	12,700	5,550	5,310	5,440	4,580	3,300	2,960	1,470	1,150	1,040
26	2,220	10,500	9,920	5,790	6,650	5,860	4,240	3,950	2,810	1,520	1,120	1,030
27	1,650	9,080	9,500	5,730	7,110	5,990	4,000	4,420	2,620	1,470	1,150	972
28	1,540	14,100	18,800	5,970	7,290	9,440	3,840	4,500	2,490	1,350	1,160	1,080
29	2,050	25,300	21,400	5,660	-------	11,500	3,750	4,320	2,400	1,410	1,130	996
30	1,900	23,200	18,500	5,200	-------	18,300	4,080	4,160	2,380	1,470	1,130	940
31	1,640	-------	11,700	6,010	-------	15,900	-------	3,960	-------	1,420	1,130	-------
TOTAL	41,944	376,490	373,830	359,310	195,650	308,120	201,830	126,840	124,640	54,960	37,480	31,390
MEAN	1,353	12,550	12,060	11,590	6,988	9,939	6,728	4,092	4,155	1,773	1,209	1,046
MAX	3,600	25,300	21,400	63,000	18,400	28,500	17,600	5,510	6,740	2,420	1,370	1,150
MIN	839	2,310	6,210	2,750	3,770	4,600	3,750	3,050	2,380	1,350	1,120	940
AC-FT	83,200	746,800	741,500	712,700	388,100	611,200	400,300	251,600	247,200	109,000	74,340	62,260

CAL YR 1973 TOTAL 1,454,070 MEAN 3,984 MAX 25,300 MIN 706 AC-FT 2,884,000
WTR YR 1974 TOTAL 2,232,484 MEAN 6,116 MAX 63,000 MIN 839 AC-FT 4,428,000

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-12	1530	12.06	27,200	1-16	0400	23.36	71,400
11-16	1630	10.13	20,500	2-19	1000	10.39	22,100
11-29	1130	12.21	27,700	3-15	0330	14.19	34,800
12- 7	1800	13.08	30,800	3-30	1600	10.14	20,500
12-17	1530	10.63	22,200	4- 1	1900	10.01	20,000
12-29	1500	11.07	23,700				

14321000 UMPQUA RIVER NEAR ELKTON, OREG.

LOCATION.--Lat 43°35'10", long 123°33'15", in NW¼ sec.8, T.23 S., R.7 W., Douglas County, on left bank 3.5 mi (5.6 km) south of Elkton, 8.3 mi (13.4 km) upstream from Elk Creek, and at mile 56.9 (91.6 km).

DRAINAGE AREA.--3,683 mi^2 (9,539 km^2).

PERIOD OF RECORD.--October 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 90.42 ft (27.560 m) above mean sea level. Prior to June 29, 1972, at site 2,400 ft (732 m) downstream at same datum. See WSP 1931 or 2135 for history of changes prior to June 29, 1972.

AVERAGE DISCHARGE.--69 years, 7,569 ft^3/s (214 m^3/s), 27.91 in/yr (709 mm/yr), 5,484,000 acre-ft/yr (6.76 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 202,000 ft^3/s (5,720 m^3/s) Jan. 16, gage height, 44.20 ft (13.472 m); minimum, 930 ft^3/s (26.9 m^3/s) Oct. 16-18.

Period of record: Maximum discharge, 265,000 ft^3/s (7,500 m^3/s) Dec. 23, 1964, gage height, 51.95 ft (15.834 m), from floodmarks; minimum observed, 640 ft^3/s (18.1 m^3/s) July 18, 1926.

Maximum stage since at least December 1861, that of Dec. 23, 1964.

REMARKS.--Records good. Regulation by powerplants on North Umpqua River ordinarily does not affect discharge at this station. Diversions for irrigation above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1184: 1927(M), 1938(M), 1943(M), 1946(M). WSP 1448: 1911-13, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,150	2,370	55,700	20,600	19,500	34,200	50,000	6,760	5,490	2,890	1,520	1,180
2	1,110	5,130	35,100	15,900	24,100	32,700	50,800	7,380	5,510	2,900	1,450	1,150
3	1,070	4,350	23,300	13,200	18,200	25,000	36,500	6,950	5,920	2,800	1,410	1,140
4	1,040	3,580	18,700	11,500	15,300	18,600	26,100	6,560	6,180	2,690	1,400	1,140
5	1,020	4,610	15,700	10,200	16,300	16,000	20,200	6,360	6,580	2,620	1,330	1,140
6	980	31,200	13,500	9,500	14,300	26,000	18,000	6,740	9,080	2,510	1,310	1,150
7	990	30,100	26,900	8,500	12,300	27,900	16,300	7,830	8,630	2,540	1,350	1,150
8	1,020	31,000	46,700	7,500	11,000	19,800	14,000	8,200	7,450	2,610	1,340	1,190
9	1,030	55,000	28,100	6,500	10,000	15,300	13,300	8,100	6,500	2,520	1,290	1,160
10	1,030	42,600	20,200	6,000	9,430	12,900	13,100	7,680	6,010	2,440	1,240	1,120
11	1,080	38,400	16,800	5,500	9,000	11,600	12,100	6,700	5,810	2,510	1,250	1,130
12	1,100	56,600	16,300	5,540	8,630	11,100	12,900	6,220	5,780	2,280	1,270	1,120
13	1,110	54,400	35,100	19,200	8,300	16,000	13,400	6,060	5,780	2,200	1,250	1,150
14	1,040	39,700	36,000	59,000	7,750	30,000	11,700	5,700	5,780	2,090	1,250	1,140
15	1,020	42,200	28,000	120,000	7,530	36,000	10,400	5,430	5,780	1,930	1,250	1,140
16	1,010	39,200	24,800	190,000	8,680	55,000	9,680	5,690	5,780	1,960	1,240	1,120
17	980	36,300	30,200	130,000	14,100	40,000	8,880	5,630	5,580	1,940	1,240	1,120
18	1,000	24,400	37,400	67,000	15,400	30,000	8,530	5,960	5,420	1,890	1,270	1,110
19	1,080	17,000	25,500	56,000	34,300	24,000	8,830	5,940	5,380	1,870	1,270	1,090
20	1,140	16,000	21,600	40,400	34,000	20,000	8,480	5,780	5,250	1,920	1,250	1,090
21	1,200	27,700	29,600	28,200	23,300	16,000	7,900	5,520	4,770	1,880	1,220	1,080
22	2,300	27,900	35,000	20,800	22,800	14,000	7,380	5,090	4,410	1,840	1,290	1,080
23	3,740	22,000	25,700	17,100	19,300	12,000	7,580	4,840	4,170	1,710	1,290	1,120
24	3,310	23,400	20,600	14,500	16,000	10,000	7,900	4,800	4,060	1,650	1,240	1,090
25	3,680	25,100	21,400	12,900	13,900	9,500	8,330	4,840	3,920	1,620	1,240	1,080
26	3,800	31,800	22,300	12,700	15,100	9,500	7,900	5,040	3,610	1,590	1,210	1,080
27	2,980	26,200	18,500	12,600	23,200	10,000	7,180	5,810	3,450	1,650	1,190	1,100
28	2,260	26,800	28,300	12,400	23,400	11,000	6,720	6,340	3,280	1,590	1,190	1,080
29	2,050	45,900	39,300	12,200	------	24,000	6,380	6,240	3,080	1,500	1,200	1,100
30	2,680	54,200	41,900	11,400	------	55,000	6,240	5,990	2,970	1,520	1,190	1,140
31	2,620	------	28,100	11,000	------	48,000	------	5,740	------	1,570	1,190	------
TOTAL	51,620	885,140	866,300	967,840	455,120	721,100	436,710	191,920	161,410	65,230	39,630	33,680
MEAN	1,665	29,500	27,950	31,220	16,250	23,260	14,560	6,191	5,380	2,104	1,278	1,123
MAX	3,800	56,600	55,700	190,000	34,300	55,000	50,800	8,200	9,080	2,900	1,520	1,190
MIN	980	2,370	13,500	5,500	7,530	9,500	6,240	4,800	2,970	1,500	1,190	1,080
CFSM	.45	8.01	7.59	8.48	4.41	6.32	3.95	1.68	1.46	.57	.35	.30
IN.	.52	8.94	8.75	9.78	4.60	7.28	4.41	1.94	1.63	.66	.40	.34
AC-FT	102,400	1,756M	1,718M	1,920M	902,700	1,430M	866,200	380,700	320,200	129,400	78,610	66,800

CAL YR 1973 TOTAL 3,022,268 MEAN 8,280 MAX 56,600 MIN 730 CFSM 2.25 IN 30.53 AC-FT 5,995,000
WTR YR 1974 TOTAL 4,875,700 MEAN 13,360 MAX 190,000 MIN 980 CFSM 3.63 IN 49.25 AC-FT 9,671,000

PEAK DISCHARGE (BASE, 52,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 9	0200	23.87	74,800	1-16	1200	44.20	202,000
11-12	2300	23.36	72,300	3-16	-	-	e 55,000
12- 1	0700	21.33	62,200	3-30	-	-	e 55,000
12- 8	0400	19.74	54,200	4- 2	0900	19.60	53,500

e Estimated daily.

14323200 TENMILE CREEK NEAR LAKESIDE, OREG.

LOCATION.--Lat 43°34'40", long 124°11'30", near center of sec.13, T.23 S., R.13 W., Coos County, in Siuslaw National Forest, near left bank on downstream side of highway bridge, 200 ft (61 m) upstream from Eel Creek, 0.8 mi (1.3 km) upstream from Saunders Creek, and 1.0 mi (1.6 km) west of Lakeside. Records include flow of Eel and Saunders Creeks.

DRAINAGE AREA.--About 87 mi^2 (225 km^2) at measuring section 1.2 mi (1.9 km) downstream.

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Auxiliary nonrecording gage 1.4 mi (2.3 km) upstream from base gage, read twice daily. Datum of both gages is at mean sea level.

AVERAGE DISCHARGE.--17 years, 338 ft^3/s (9.57 m^3/s), 244,900 acre-ft/yr (302 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,860 ft^3/s (81.0 m^3/s) Jan. 17, elevation, 15.06 ft (4.590 m) at base gage; minimum, 5.8 ft^3/s (0.164 m^3/s) Sept. 26-28.

Period of record: Maximum discharge, 3,330 ft^3/s (94.3 m^3/s) Dec. 26, 1964, elevation, 16.46 ft (5.017 m) at base gage, 18.78 ft (5.724 m) at auxiliary gage; minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 29, Sept. 2, 1967.

Maximum known stage at auxiliary gage, 19.83 ft (6.044 m) in January 1953, from floodmarks.

REMARKS.--Records fair. Flow affected by natural storage in Tenmile Lake and other lakes tributary to Eel and Saunders Creeks. No diversion above station. Records given herein are for measuring site.

REVISIONS (WATER YEARS).--WSP 1718: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	83	1,540	1,360	1,080	1,660	1,060	282	119	67	28	14
2	38	95	1,390	1,210	1,090	1,720	1,060	272	114	65	28	14
3	38	104	1,270	1,080	1,030	1,610	1,020	261	110	64	28	14
4	36	122	1,160	974	977	1,440	962	249	110	60	35	14
5	41	194	1,060	884	920	1,450	899	238	116	57	33	14
6	37	280	983	803	863	1,940	842	228	119	56	33	13
7	35	316	1,100	740	800	1,890	785	217	121	52	37	20
8	33	370	1,230	688	743	1,660	728	209	123	56	39	19
9	32	605	1,160	643	689	1,420	695	199	125	50	42	19
10	31	812	1,060	600	641	1,220	653	189	121	49	42	17
11	30	974	974	565	600	1,100	628	187	119	47	42	16
12	29	1,240	953	543	573	1,080	618	184	114	47	45	15
13	27	1,520	1,170	558	545	1,060	598	176	108	44	45	14
14	26	1,640	1,300	653	520	1,140	570	172	105	40	40	12
15	25	1,890	1,340	1,140	508	1,470	545	172	101	39	40	11
16	24	2,510	1,450	2,270	585	1,430	518	176	103	37	40	10
17	23	2,330	1,760	2,800	647	1,320	488	176	98	37	37	11
18	23	2,030	1,770	2,580	707	1,190	463	178	98	39	33	12
19	26	1,690	1,590	2,390	893	1,070	438	178	93	40	28	11
20	30	1,480	1,680	2,140	962	965	421	176	89	40	23	11
21	35	1,410	2,510	1,860	950	872	402	174	84	40	20	11
22	38	1,430	2,500	1,590	932	791	383	168	83	39	19	9.7
23	41	1,420	2,290	1,350	890	722	374	165	81	40	17	8.6
24	44	1,360	2,050	1,170	842	662	367	159	83	47	17	8.6
25	47	1,350	1,850	1,070	806	618	356	153	83	50	17	8.6
26	49	1,370	1,620	989	836	578	342	150	76	50	16	6.7
27	51	1,340	1,480	938	947	553	331	148	73	45	14	6.7
28	56	1,410	1,540	914	1,330	568	320	139	72	40	14	7.6
29	61	1,690	1,580	902	------	593	307	132	72	35	13	9.7
30	64	1,690	1,680	902	------	809	293	130	70	32	16	11
31	67	------	1,550	956	------	1,030	------	125	------	30	16	------
TOTAL	1,174	34,755	46,590	37,262	22,906	35,631	17,466	5,762	2,983	1,434	897	369.2
MEAN	37.9	1,159	1,503	1,202	818	1,149	582	186	99.4	46.3	28.9	12.3
MAX	67	2,510	2,510	2,800	1,330	1,940	1,060	282	125	67	45	20
MIN	23	83	953	543	508	553	293	125	70	30	13	6.7
AC-FT	2,330	68,940	92,410	73,910	45,430	70,670	34,640	11,430	5,920	2,840	1,780	732

CAL YR 1973 TOTAL 135,380.9 MEAN 371 MAX 2,510 MIN 4.0 AC-FT 268,500

WTR YR 1974 TOTAL 207,229.2 MEAN 568 MAX 2,800 MIN 6.7 AC-FT 411,000

14323280 EEL LAKE NEAR LAKESIDE, OREG.

LOCATION.--Lat 43°36'17", long 124°10'28", in SE¼NW¼ sec.6, T.23 S., R.12 W., on west shore 0.1 mi (0.2 km) south of Clear Creek and 1.9 mi (3.1 km) north of Lakeside.

DRAINAGE AREA.--8.70 mi² (22.5 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 56.00 ft (17.069 m) above mean sea level; gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum elevation, 64.25 ft (19.583 m) Dec. 22; minimum recorded, 57.54 ft (17.538 m) Sept. 20, but may have been lower during period Sept. 21-30.

Period of record: Maximum elevation, 64.25 ft (19.583 m) Dec. 22, 1973; minimum recorded, 57.54 ft (17.538 m) Sept. 20, 1974, but many have been lower during period Sept. 21-30, 1974.

REMARKS.--Lake not regulated; lake outlet is a sand channel. The control is subject to shifting at high stages. Some water is pumped from lake for filtration and distribution purposes by Lakeside Water District.

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.00	58.36	61.99	62.25	61.54	62.10	61.46	59.38	58.58	58.16	57.93	57.64
2	57.99	58.37	61.91	62.00	61.45	62.13	61.41	59.34	58.56	58.14	57.91	57.64
3	57.98	58.45	61.89	61.77	61.36	62.07	61.33	59.28	58.54	58.13	57.90	57.63
4	57.97	58.63	61.78	61.55	61.27	62.03	61.21	59.24	58.61	58.11	57.88	57.63
5	57.97	58.95	61.64	61.32	61.16	62.72	61.11	59.19	58.64	58.10	57.86	57.62
6	57.99	59.05	61.70	61.13	61.08	62.88	60.98	59.15	58.65	58.08	57.85	57.62
7	57.98	59.07	62.14	61.00	60.95	62.73	60.85	59.12	58.63	58.10	57.84	57.61
8	58.00	59.54	62.12	60.79	60.83	62.50	60.76	59.07	58.60	58.14	57.82	57.60
9	58.00	60.05	61.98	60.63	60.71	62.25	60.68	59.02	58.58	58.15	57.81	57.63
10	58.00	60.27	61.81	60.48	60.59	62.06	60.58	58.98	58.55	58.15	57.80	57.63
11	58.00	60.52	61.70	60.36	60.49		60.55	59.00	58.52	58.14	57.78	57.62
12	58.00	61.02	61.86	60.28	60.44		60.47	58.97	58.51	58.12	57.77	57.61
13	58.00	61.35	62.07	60.25	60.34		60.38	58.95	58.51	58.10	57.76	57.59
14	58.00	61.39	62.25	60.27	60.27		60.28	58.96	58.49	58.09	57.75	57.59
15	57.99	62.47	62.22		60.43		60.20	58.97	58.47	58.07	57.74	57.58
16	58.00	62.68	62.66		60.56		60.10	58.98	58.44	58.07	57.73	57.58
17	57.99	62.39	62.92	63.18	60.57		60.00	58.97	58.42	58.14	57.72	57.57
18	57.98	62.07	62.91	63.18	60.80		59.91	58.97	58.39	58.15	57.72	57.56
19	57.98	61.74	62.80	63.04	60.91		59.84	58.95	58.38	58.15	57.71	57.55
20	58.01	61.68	63.28	62.81	60.90		59.80	58.92	58.36	58.13	57.70	
21	58.06	61.60	64.22	62.56	60.94		59.73	58.90	58.34	58.12	57.70	
22	58.08	61.72	64.17	62.32	60.92		59.69	58.87	58.32	58.10	57.69	
23	58.11	61.69	63.95	62.08	60.87		59.68	58.84	58.28	58.08	57.69	
24	58.12	61.64	63.65	61.87	60.81		59.70	58.82	58.25	58.06	57.68	
25	58.13	61.71	63.40	61.68	60.82		59.67	58.80	58.24	58.04	57.67	
26	58.13	61.65	63.08	61.49	60.98		59.63	58.77	58.23	58.02	57.66	
27	58.14	61.65	62.88	61.42	61.20		59.59	58.73	58.23	58.00	57.65	
28	58.20	61.87	62.77	61.34	61.86		59.54	58.69	58.22	57.98	57.64	
29	58.22	62.07	62.70	61.29	------		59.48	58.66	58.20	57.97	57.64	
30	58.23	62.03	62.63	61.28	------		59.43	58.63	58.18	57.96	57.64	
31	58.32	------	62.47	61.47	------		------	58.61	------	57.95	57.64	------
MEAN	58.05	60.86	62.57		60.89		60.27	58.96	58.43	58.09	57.75	
MAX	58.32	62.68	64.22		61.86		61.46	59.38	58.65	58.16	57.93	
MIN	57.97	58.36	61.64		60.27		59.43	58.61	58.18	57.95	57.64	

14324500 WEST FORK MILLICOMA RIVER NEAR ALLEGANY, OREG.

LOCATION.--Lat 43°28'35", long 124°03'20", in SW¼NW¼ sec.19, T.24 S., R.11 W., Coos County, on left bank at highway bridge, 40 ft (12 m) upstream from Daggett Creek, 3.8 mi (6.1 km) north of Allegany, and at mile 6.82 (10.97 km).

DRAINAGE AREA.--46.9 mi² (121.5 km²).

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 76.95 ft (23.454 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 264 ft³/s (7.48 m³/s), 76.44 in/yr (1,942 mm/yr), 191,300 acre-ft/yr (236 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,950 ft³/s (169 m³/s) Jan. 15, gage height, 13.62 ft (4.151 m), from tape indicator; minimum, 2.4 ft³/s (0.07 m³/s) Sept. 16, 17.

Period of record: Maximum discharge, 8,100 ft³/s (229 m³/s) Nov. 24, 1960, gage height, 15.86 ft (4.834 m); minimum, 1.8 ft³/s (0.05 m³/s) Sept. 5, 9, 1965, Sept. 8-10, 1967.

Flood in January or November 1953 reached a stage of about 17.9 ft (5.46 m), from information by local resident.

REMARKS.--Records good. No regulation. Only minor diversions for irrigation above station. Records of chemical analysis and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1718: 1955-59. WRD Oreg. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	467	650	478	1,230	1,230	955	80	43	23	9.2	4.3
2	20	198	542	362	734	1,100	875	76	40	23	8.5	4.1
3	18	136	463	285	494	710	734	73	39	23	8.1	3.9
4	17	467	411	233	486	538	566	67	62	22	7.4	3.9
5	15	1,120	337	198	460	1,470	435	64	220	22	7.4	3.4
6	15	1,000	300	175	358	1,900	390	60	175	22	6.8	3.2
7	17	626	1,360	165	288	795	327	57	138	21	7.1	3.2
8	18	990	791	140	238	498	279	54	114	29	7.4	3.2
9	16	2,280	478	130	205	358	273	53	96	35	7.4	3.6
10	14	1,160	341	120	180	285	273	53	82	31	7.1	3.7
11	12	1,290	321	130	158	270	321	64	71	27	6.8	3.6
12	12	1,480	702	150	158	562	379	76	62	23	6.5	3.4
13	12	1,360	1,290	955	145	514	288	62	56	22	6.5	3.2
14	12	1,210	1,090	1,800	145	1,650	230	69	53	20	6.2	2.8
15	12	2,570	805	4,840	210	1,510	203	106	50	19	6.5	2.6
16	11	2,310	1,080	3,600	1,060	714	175	190	46	19	6.2	2.4
17	11	975	1,370	2,400	875	530	150	213	43	22	5.9	2.6
18	11	558	815	1,800	1,050	400	138	185	39	28	5.9	3.1
19	11	372	558	1,360	1,900	312	127	155	38	27	5.6	3.1
20	12	658	1,950	840	820	252	129	133	38	22	5.6	3.0
21	22	850	2,070	502	594	210	118	114	33	19	5.3	3.0
22	36	1,120	1,290	379	550	180	112	102	32	17	5.3	2.8
23	33	810	1,120	300	460	158	120	92	31	15	5.1	3.0
24	52	875	750	252	369	138	131	84	29	14	4.8	2.8
25	57	1,050	800	270	355	131	122	76	28	14	4.8	2.8
26	46	1,070	562	482	764	118	114	69	28	12	4.6	2.6
27	35	1,110	1,090	460	895	125	108	62	30	12	4.6	3.0
28	67	1,290	1,290	494	1,630	602	100	57	29	12	4.1	2.8
29	106	1,660	1,870	482	------	746	92	53	27	11	3.9	3.0
30	69	900	1,210	546	------	1,740	86	50	24	10	4.1	2.8
31	163	------	686	1,020	------	1,050	------	47	------	9.6	3.9	------
TOTAL	975	31,962	28,392	25,348	16,811	20,796	8,350	2,696	1,796	625.6	188.6	94.9
MEAN	31.5	1,065	916	818	600	671	278	87.0	59.9	20.2	6.08	3.16
MAX	163	2,570	2,070	4,840	1,900	1,900	955	213	220	35	9.2	4.3
MIN	11	136	300	120	145	118	86	47	24	9.6	3.9	2.4
CFSM	.67	22.7	19.5	17.4	12.8	14.3	5.93	1.86	1.28	.43	.13	.07
IN.	.77	25.35	22.52	20.11	13.33	16.49	6.62	2.14	1.42	.50	.15	.08
AC-FT	1,930	63,400	56,320	50,280	33,340	41,250	16,560	5,350	3,560	1,240	374	188

CAL YR 1973 TOTAL 95,492.4 MEAN 262 MAX 2,570 MIN 4.1 CFSM 5.59 IN 75.74 AC-FT 189,400
WTR YR 1974 TOTAL 138,035.1 MEAN 378 MAX 4,840 MIN 2.4 CFSM 8.06 IN 109.49 AC-FT 273,800

PEAK DISCHARGE (BASE, 3,000 CFS)

NOTE.--No gage-height record Jan. 15-18.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2100	10.35	3,830	1-15	-	13.62	5,950
12-20	2230	10.22	3,740	3- 5	2330	9.39	3,200

14324700 SOUTH FORK COQUILLE RIVER NEAR ILLAHE, OREG.

LOCATION.--Lat 42°43'30", long 124°00'40", in NW¼ sec.16, T.33 S., R.11 W., Coos County, in Siskiyou National Forest, on left bank 1.0 mi (1.6 km) downstream from Lockhart Creek, 7.0 mi (11.3 km) north of Illahe, and at mile 85.1 (136.9 km).

DRAINAGE AREA.--40.6 mi² (105.2 km²), at measuring site 1.2 mi (1.9 km) upstream from gage.

PERIOD OF RECORD.--October 1956 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,871.04 ft (570.293 m) above mean sea level (levels by Pacific Power & Light Co.).

AVERAGE DISCHARGE.--18 years, 199 ft³/s (5.64 m³/s), 66.56 in/yr (1,691 mm/yr), 144,200 acre-ft/yr (178 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft³/s (163 m³/s) Jan. 15, gage height, 9.68 ft (2.950 m); minimum, 1.2 ft³/s (0.034 m³/s) Sept. 28-30.

Period of record: Maximum discharge, 12,000 ft³/s (340 m³/s) Dec. 22, 1964, gage height, 11.80 ft (3.597 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s), on basis of slope-area measurement at gage height 9.54 ft (2.908 m); minimum, 1.2 ft³/s (0.034 m³/s) Sept. 27-29, 1967, Sept. 28-30, 1974.

Flood of Dec. 21, 1955, reached a stage of about 10.8 ft (3.29 m), discharge, about 8,600 ft³/s (244 m³/s).

REMARKS.--Records good. No regulation or diversion above station. Records given herein are for measuring site. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBFR 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	98	1.140	354	914	1.130	1.150	64	31	12	4.4	2.4
2	7.7	75	723	285	589	769	890	60	29	12	4.4	2.2
3	7.1	60	512	243	399	458	581	56	28	11	4.1	2.2
4	6.5	125	393	205	348	348	430	54	28	11	3.8	2.0
5	6.2	885	330	173	300	338	373	51	38	11	3.6	2.0
6	7.4	1,250	324	150	255	498	341	48	34	11	3.6	2.0
7	9.1	601	1,200	134	215	389	297	46	30	11	3.6	1.8
8	8.1	1,500	795	121	184	312	255	45	28	14	3.6	1.8
9	7.4	1,540	487	109	161	261	225	43	26	14	3.6	2.0
10	6.8	1,270	351	89	145	270	205	44	24	12	3.3	2.2
11	6.2	1,510	357	91	131	393	198	41	23	12	3.3	2.0
12	6.8	2,000	487	282	127	729	205	47	23	11	3.1	2.0
13	6.5	1,340	865	1.470	118	541	186	44	21	11	3.1	2.0
14	5.9	1,490	935	1.850	110	787	166	41	21	9.6	3.1	1.8
15	5.6	2,220	855	5.080	170	1,200	151	44	20	9.2	3.1	1.6
16	5.4	1,660	780	3,660	597	985	137	54	20	8.8	3.1	1.6
17	5.1	875	1,080	1.640	437	865	126	58	20	8.4	3.1	1.6
18	5.1	562	750	1.190	751	589	120	56	19	8.4	3.3	1.4
19	4.8	387	523	985	1,370	441	115	60	18	8.4	3.3	1.4
20	5.4	691	1.100	618	734	370	108	61	19	8.0	3.6	1.4
21	47	660	1,830	420	480	332	102	57	17	7.2	3.3	1.4
22	44	501	1,290	326	348	300	95	54	16	6.8	3.3	1.4
23	48	441	825	264	278	261	97	51	17	6.5	3.1	1.3
24	55	605	593	215	239	228	94	48	16	6.5	2.8	1.3
25	45	672	554	200	255	239	88	45	16	6.1	2.8	1.3
26	35	683	435	208	344	255	82	42	16	5.7	2.6	1.3
27	28	652	387	191	386	303	80	40	15	5.4	2.6	1.3
28	37	1,290	417	195	1,410	950	76	39	14	5.0	2.4	1.3
29	46	1,610	727	191	------	1,020	70	36	13	5.0	2.4	1.2
30	36	1,280	683	174	------	1,290	67	35	12	5.0	2.4	1.2
31	34	------	477	529	------	980	------	32	------	4.7	2.4	------
TOTAL	586.5	28,533	22,205	21.642	11,795	17.831	7.110	1,496	652	277.7	100.2	50.4
MEAN	18.9	951	716	698	421	575	237	48.3	21.7	8.96	3.23	1.68
MAX	55	2,220	1,830	5,080	1.410	1.290	1,150	64	38	14	4.4	2.4
MIN	4.8	60	324	89	110	228	67	32	12	4.7	2.4	1.2
AC-FT	1.160	56,600	44,040	42,930	23,400	35,370	14,100	2,970	1,290	551	199	100

CAL YR 1973 TOTAL 85,135.8 MEAN 233 MAX 2,220 MIN 1.5 AC-FT 168,900
WTR YR 1974 TOTAL 112,278.8 MEAN 308 MAX 5,080 MIN 1.2 AC-FT 222,700

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1300	7.22	2,220	12-21	1000	6.95	2,000
11-12	0700	7.48	2,440	1-15	1730	9.68	5,740
11-15	2000	7.58	2,540	2-28	0730	6.64	1,750
11-29	0400	6.87	1,940				

14325000 SOUTH FORK COQUILLE RIVER AT POWERS, OREG.

LOCATION.--Lat 42°53'30", long 124°04'10", in SE¼ sec.12, T.31 S., R.12 W., Coos County, on left bank 0.6 mi (1.0 km) downstream from highway bridge at Powers, 0.9 mi (1.4 km) upstream from Woodward Creek, and at mile 64.5 (103.8 km).

DRAINAGE AREA.--169 mi² (438 km²).

PERIOD OF RECORD.--September 1916 to September 1926, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 197.42 ft (60.174 m) above mean sea level. Prior to Nov. 17, 1938, nonrecording gages at various sites within 1 mi (2 km) of present site at different datums.

AVERAGE DISCHARGE.--55 years (1916-26, 1929-74), 800 ft³/s (22.7 m³/s), 64.28 in/yr (1,633 mm/yr), 579,600 acre-ft/yr (715 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 25,600 ft³/s (725 m³/s) Jan. 15, gage height, 17.30 ft (5.273 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 27-30.

Period of record: Maximum discharge, 48,900 ft³/s (1,380 m³/s) Dec. 22, 1964, gage height, 26.51 ft (8.080 m), from floodmarks, from rating curve extended above 19,000 ft³/s (538 m³/s) on basis of contracted-opening measurement at gage height 18.14 ft (5.529 m) and slope-area measurement of peak flow; minimum, 12 ft³/s (0.34 m³/s) Sept. 22-25, 27-30, 1939, Oct. 5, 1961.

REMARKS.--Records good. No regulation. Small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1184: 1946(M). WSP 1448: 1917-18(M), 1919, 1920(M), 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	342	4,790	1,360	4,250	6,180	4,620	277	135	61	29	21
2	57	243	3,140	1,020	2,720	4,250	3,470	260	129	60	29	21
3	53	227	2,150	824	1,930	2,610	2,520	244	124	58	28	20
4	49	595	1,590	676	1,670	1,680	1,930	231	124	57	28	20
5	46	5,910	1,240	573	1,470	1,670	1,670	222	146	57	28	19
6	46	5,350	1,100	494	1,250	2,550	1,530	210	142	58	27	19
7	66	2,490	5,810	434	1,090	1,980	1,270	201	128	57	26	19
8	63	6,400	3,260	390	959	1,500	1,070	193	120	73	26	19
9	56	7,370	1,920	350	865	1,210	945	184	114	75	26	19
10	50	5,630	1,330	317	784	1,130	839	179	108	67	26	20
11	46	6,600	1,560	300	723	1,550	776	171	104	61	25	20
12	48	8,550	2,810	906	717	3,490	752	190	98	57	25	19
13	46	6,600	5,890	6,620	672	2,760	683	182	96	54	25	18
14	44	6,000	4,650	7,930	634	3,840	618	171	93	51	25	17
15	41	9,500	3,470	22,100	871	4,460	577	198	91	49	25	17
16	39	8,000	2,430	17,100	3,670	3,110	532	264	88	47	25	17
17	38	3,900	4,350	7,930	2,670	2,700	485	329	88	47	24	17
18	37	2,490	3,010	5,130	3,290	2,060	476	310	84	47	25	17
19	36	1,710	2,040	4,450	5,960	1,620	481	303	83	48	25	17
20	36	3,080	5,080	2,780	3,030	1,370	450	295	83	46	25	16
21	165	3,570	7,440	1,990	2,470	1,190	424	274	79	42	24	16
22	227	2,670	5,020	1,530	2,150	1,030	407	254	78	40	24	15
23	198	2,040	3,340	1,280	1,700	898	432	231	78	39	23	15
24	265	2,550	2,300	1,090	1,420	795	432	216	75	37	22	14
25	253	2,970	2,170	987	1,460	758	399	198	73	36	21	14
26	180	3,080	1,660	1,080	2,540	820	369	184	73	35	21	14
27	143	2,600	1,600	987	2,800	938	345	176	73	33	21	14
28	167	4,520	2,070	919	8,890	3,500	325	166	71	32	20	14
29	224	6,950	4,030	832	------	3,830	306	156	67	31	21	14
30	172	4,880	3,030	752	------	5,460	292	149	64	30	21	14
31	150	------	1,960	2,150	------	3,730	------	142	------	29	21	------
TOTAL	3,104	126,957	96,620	95,290	62,715	74,864	29,425	6,760	2,908	1,514	761	516
MEAN	100	4,232	3,117	3,074	2,240	2,415	981	218	96.9	48.8	24.5	17.2
MAX	265	9,500	7,440	22,100	8,890	6,180	4,620	329	146	75	29	21
MIN	36	227	1,100	300	639	758	292	142	64	29	20	14
CFSM	.59	25.0	18.4	18.2	13.3	14.3	5.80	1.29	.57	.29	.15	.10
IN.	.68	27.95	21.27	20.97	13.80	16.48	6.48	1.49	.64	.33	.17	.11
AC-FT	6,160	251,800	191,600	189,000	124,400	148,500	58,360	13,410	5,770	3,000	1,510	1,020

CAL YR 1973 TOTAL 364,570 MEAN 999 MAX 9,500 MIN 17 CFSM 5.91 IN 80.25 AC-FT 723,100
WTR YR 1974 TOTAL 501,429 MEAN 1,374 MAX 22,100 MIN 14 CFSM 8.13 IN 110.37 AC-FT 994,600

PEAK DISCHARGE (BASE, 9,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	1130	10.41	9,970	11-15	-	-	e9,500
11- 8	1230	10.58	10,200	1-15	1530	17.30	25,600
11-12	0700	10.71	10,500	2-28	0900	11.25	12,000

e Estimated daily.

14326800 NORTH FORK COQUILLE RIVER NEAR FAIRVIEW, OREG.

LOCATION.--Lat 43°10'45", long 124°05'10", in NE¼NE¼ sec.2, T.28 S., R.12 W., Coos County, on right bank 0.7 mi (1.1 km) downstream from Lost Creek, 2.6 mi (4.2 km) south of Fairview, and at mile 21.7 (34.9 km).

DRAINAGE AREA.--74.0 mi^2 (191.7 km^2).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 63.34 ft (19.306 m) above mean sea level (from stadia survey).

AVERAGE DISCHARGE.--11 years, 313 ft^3/s (8.86 m^3/s), 57.44 in/yr (1,459 mm/yr), 226,800 acre-ft/yr (280 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,310 ft^3/s (150 m^3/s) Jan. 16, gage height, 16.47 ft (5.020 m); minimum, 3.3 ft^3/s (0.093 m^3/s) Sept. 26-30.

Period of record: Maximum discharge, 7,760 ft^3/s (220 m^3/s) Mar. 2, 1972, gage height, 18.03 ft (5.496 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Sept. 9, 10, 1967.

REMARKS.--Records fair. No regulation. Several diversions for irrigation by pumping above station.

REVISIONS.--WRD Oreg. 1972: 1964-67; 1969-71 (M,P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	263	1.300	640	1.060	2.030	1.400	122	74	30	11	8.0
2	22	135	1.090	512	804	1.820	1.300	116	68	28	10	8.0
3	20	91	856	417	612	1.230	960	110	67	28	9.0	8.0
4	18	243	676	353	588	844	760	104	76	28	9.0	7.6
5	18	1.720	568	312	520	1.370	644	100	227	26	8.5	6.8
6	17	1.650	496	271	442	2.600	584	97	175	26	8.5	6.8
7	17	660	2.060	243	382	1.430	496	92	131	26	8.5	6.4
8	17	1.420	1.560	224	340	824	431	88	109	36	8.0	6.0
9	18	1.940	776	205	303	632	421	85	94	34	7.6	6.0
10	17	1.200	596	188	271	516	382	85	85	33	7.6	6.4
11	16	1.400	560	175	246	459	393	86	77	30	7.2	6.8
12	15	1.700	740	203	241	884	424	92	70	27	7.2	6.8
13	15	1.300	640	656	227	844	365	82	70	24	7.2	4.8
14	14	1.300	1.340	1.540	216	2.250	321	86	70	22	7.2	4.4
15	14	2.400	936	3.730	263	2.720	295	129	65	21	7.6	4.0
16	14	2.000	876	4.980	1.090	1.430	266	271	60	20	7.6	4.0
17	13	900	1.030	3.330	928	916	241	343	55	21	7.6	4.0
18	13	550	800	2.080	1.130	696	222	269	50	23	7.6	4.0
19	13	400	668	1.760	2.270	560	205	222	50	23	7.6	4.4
20	13	700	1.420	1.110	1.360	466	208	188	48	21	7.6	3.8
21	27	700	2.360	744	948	392	195	159	46	16	7.6	3.8
22	42	1.000	1.860	596	864	346	180	144	38	17	7.6	4.0
23	32	750	1.450	484	712	300	195	129	38	15	6.8	4.0
24	41	800	928	407	588	271	203	120	42	15	6.8	4.0
25	42	900	904	400	600	251	178	112	36	15	6.8	3.6
26	34	900	696	473	1.300	227	168	102	36	14	5.6	3.3
27	28	1.400	800	449	1.620	224	154	95	38	14	5.2	3.3
28	50	1.500	1.000	459	2.240	359	144	89	38	13	5.2	3.3
29	95	2.200	1.710	442	------	548	133	85	34	13	6.4	3.3
30	59	1.500	1.620	424	------	1.850	125	82	32	12	7.2	3.3
31	54	------	864	600	------	1.300	------	77	------	12	8.0	------
TOTAL	833	33.622	33.180	26.407	22.165	30.589	11.993	3.961	2.099	685	235.3	152.9
MEAN	26.9	1.121	1.070	916	792	987	400	128	70.0	22.1	7.59	5.10
MAX	95	2.400	2.360	4.980	2.270	2.720	1.400	343	227	36	11	8.0
MIN	13	91	496	175	216	224	125	77	32	12	5.2	3.3
CFSM	.36	15.1	14.5	12.4	10.7	13.3	5.41	1.73	.95	.30	.10	.07
IN.	.42	16.90	16.68	14.28	11.14	15.38	6.03	1.99	1.06	.34	.12	.08
AC-FT	1.650	66.690	65.810	56.350	43.960	60.670	23.790	7.860	4.160	1.360	467	303

CAL YR 1973 TOTAL 112.601.2 MEAN 308 MAX 2.400 MIN 3.6 CFSM 4.16 IN 56.60 AC-FT 223.300
WTR YR 1974 TOTAL 167.922.2 MEAN 460 MAX 4.980 MIN 3.3 CFSM 6.22 IN 84.41 AC-FT 333.100

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-15	2300	14.43	3,200	3- 6	0400	13.05	3,020
1-16	1730	16.47	5,310	3-14	2330	14.74	3,670

14328000 ROGUE RIVER ABOVE PROSPECT, OREG.

LOCATION.--Lat 42°46'30", long 122°29'55", in SE¼NE¼ sec.19, T.32 S., R.3 E., Jackson County, on left bank 1.4 mi (2.3 km) upstream from Pacific Power & Light Co. diversion dam, 1.8 mi (2.9 km) northwest of Prospect, and at mile 173.4 (279.0 km).

DRAINAGE AREA.--312 mi² (808 km²).

PERIOD OF RECORD.--January 1908 to February 1912, October 1923 to current year. Monthly discharge only for some periods, published in WSP 1318. Prior to October 1925, published as "near Prospect."

GAGE.--Water-stage recorder. Altitude of gage is 2,620 ft (799 m), from river-profile map. Prior to Feb. 17, 1912, nonrecording gage at several sites within a few hundred feet upstream at various datums.

AVERAGE DISCHARGE.--54 years (1908-11, 1923-74), 824 ft³/s (23.3 m³/s), 35.87 in/yr (911 mm/yr), 597,000 acre-ft/yr (736 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,950 ft³/s (282 m³/s) Jan. 16, gage height, 7.55 ft (2.301 m); minimum, 356 ft³/s (10.1 m³/s) Oct. 19.

Period of record: Maximum discharge, 22,400 ft³/s (634 m³/s) Dec. 22, 1964, gage height, 11.55 ft (3.520 m), from floodmark, from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement at 16,600 ft³/s (470 m³/s); minimum observed, 200 ft³/s (5.66 m³/s) Nov. 20, 1931.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1248: 1925, 1927(M). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	386	808	2,040	1,340	1,170	829	2,450	2,000	1,940	1,230	704	602
2	386	579	1,500	1,150	1,040	815	2,080	1,880	2,180	1,160	698	596
3	381	519	1,280	1,060	992	766	1,750	1,800	2,240	1,100	692	596
4	377	519	1,130	952	976	752	1,540	1,850	2,270	1,070	686	596
5	377	632	1,050	878	920	766	1,490	2,080	2,970	1,060	680	590
6	381	1,730	1,060	808	829	822	1,500	2,500	2,600	1,030	686	590
7	404	1,020	1,880	801	829	773	1,410	2,750	2,310	1,000	674	585
8	386	2,660	2,030	794	810	724	1,370	2,790	2,070	992	668	585
9	381	2,080	1,570	780	780	731	1,360	2,720	2,000	1,050	662	585
10	373	2,260	1,370	710	700	731	1,270	2,250	2,070	960	656	590
11	373	3,370	1,360	710	680	738	1,280	2,050	2,240	936	656	585
12	373	3,720	1,320	815	680	829	1,360	1,990	2,360	906	650	579
13	373	2,360	1,300	1,200	760	801	1,290	1,760	2,380	885	650	579
14	369	1,730	1,170	1,990	801	1,450	1,270	1,580	2,380	878	650	579
15	369	1,560	1,130	6,480	787	2,640	1,290	1,550	2,300	871	644	574
16	360	2,140	1,160	9,330	878	2,210	1,250	1,410	2,130	850	638	590
17	360	1,760	1,800	6,140	850	2,340	1,330	1,300	2,140	843	638	596
18	377	1,390	1,700	4,570	885	2,220	1,500	1,200	2,160	836	638	596
19	360	1,150	1,410	4,450	1,100	1,880	1,480	1,140	2,080	829	644	596
20	381	1,060	1,410	3,090	992	1,700	1,390	1,110	1,760	822	644	596
21	493	992	1,810	2,200	928	1,570	1,390	1,100	1,650	808	638	590
22	766	913	1,590	1,800	885	1,500	1,550	1,120	1,630	794	632	590
23	662	857	1,380	1,600	829	1,440	1,650	1,240	1,580	787	626	590
24	698	815	1,290	1,480	815	1,400	1,560	1,290	1,520	773	620	590
25	579	794	1,810	1,410	808	1,440	1,430	1,580	1,450	759	620	585
26	499	752	1,530	1,300	815	1,530	1,330	1,990	1,330	752	614	585
27	464	801	1,610	1,210	780	1,640	1,240	2,260	1,250	745	614	585
28	493	960	1,930	1,140	822	1,970	1,230	2,240	1,220	745	608	585
29	552	1,640	2,210	1,070	------	2,250	1,430	2,030	1,220	731	608	585
30	483	2,470	1,920	1,040	------	3,710	1,700	1,870	1,240	724	608	585
31	478	------	1,580	1,070	------	2,720	------	1,810	------	710	602	------
TOTAL	13,694	44,041	47,330	63,368	24,141	45,687	44,170	56,240	58,670	27,636	20,048	17,655
MEAN	442	1,468	1,527	2,044	862	1,474	1,472	1,814	1,956	891	647	589
MAX	766	3,720	2,210	9,330	1,170	3,710	2,450	2,790	2,970	1,230	704	602
MIN	360	519	1,050	710	680	724	1,230	1,100	1,220	710	602	574
CFSM	1.42	4.71	4.89	6.55	2.76	4.72	4.72	5.81	6.27	2.86	2.07	1.89
IN.	1.63	5.25	5.64	7.56	2.88	5.45	5.27	6.71	7.00	3.30	2.39	2.11
AC-FT	27,160	87,360	93,880	125,700	47,880	90,620	87,610	111,600	116,400	54,820	39,770	35,020

CAL YR 1973 TOTAL 286,419 MEAN 785 MAX 3,720 MIN 360 CFSM 2.52 IN 34.15 AC-FT 568,100
WTR YR 1974 TOTAL 462,680 MEAN 1,268 MAX 9,330 MIN 360 CFSM 4.06 IN 55.17 AC-FT 917,700

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 8	1400	4.46	3,440	3-15	0400	4.00	2,880
11-11	2330	4.89	4,130	3-30	0830	4.71	4,000
11-30	1430	3.99	2,720	5- 9	0230	4.07	2,980
1-16	0130	7.55	9,950	6- 5	0800	4.21	3,040

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14330000 ROGUE RIVER BELOW PROSPECT, OREG.

LOCATION.--Lat 42°43'50", long 122°30'55", in SE¼NW¼ sec.6, T.33 S., R.3 E., Jackson County, on right bank 500 ft (152 m) downstream from Prospect No. 1 powerplant, 1.4 mi (2.3 km) downstream from Mill Creek, 2.0 mi (3.2 km) southwest of Prospect, 2.1 mi (3.4 km) upstream from South Fork Rogue River, and at mile 169.4 (272.6 km).

DRAINAGE AREA.--379 mi² (982 km²).

PERIOD OF RECORD.--August 1913 to September 1930, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,970 ft (600 m), from topographic map. Prior to September 1927 nonrecording gage at site 1,000 ft (305 m) upstream, above powerplants, at different datum, also concurrent nonrecording gage on headrace to obtain equivalent combined flow.

AVERAGE DISCHARGE.--23 years, 1,197 ft³/s (33.9 m³/s), 867,200 acre-ft/yr (1,069 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft³/s (300 m³/s) Jan. 16, gage height, 7.49 ft (2.283 m); minimum, 675 ft³/s (19.1 m³/s) Oct. 19.

Period of record: Maximum discharge, 10,900 ft³/s (309 m³/s) Jan. 18, 1971; minimum, 455 ft³/s (12.9 m³/s) Oct. 13, 19, 20, 23-25, 1924.

Maximum stage since at least 1890, 12.4 ft (3.78 m) Dec. 22, 1964, from floodmarks, discharge, 25,000 ft³/s (708 m³/s), from records for station above Prospect (see station 14328000) and for station below South Fork Rogue River near Prospect (see station 14335000) after adjusting for estimated intervening tributary inflow.

REMARKS.--Records good. Small fluctuations caused by powerplants 500-800 ft (152-244 m) above station. Small diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1518: 1914-23, 1924(M), 1925, 1928.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	896	1,330	2,780	2,260	2,120	1,700	5,100	2,850	2,870	2,100	1,420	1,270
2	896	1,130	2,300	2,040	2,050	1,680	4,000	2,750	3,080	2,030	1,400	1,270
3	896	1,060	2,080	1,940	1,930	1,600	3,000	2,660	3,130	1,930	1,400	1,260
4	896	1,060	1,900	1,800	1,920	1,580	2,600	2,720	3,150	1,910	1,380	1,260
5	896	1,160	1,800	1,730	1,840	1,590	2,440	2,940	3,720	1,880	1,370	1,250
6	907	2,320	1,800	1,580	1,770	1,680	2,440	3,280	3,420	1,830	1,390	1,250
7	935	1,700	2,560	1,620	1,750	1,600	2,310	3,480	3,200	1,790	1,370	1,250
8	907	3,120	2,770	1,600	1,590	1,530	2,290	3,510	2,970	1,780	1,360	1,240
9	902	2,700	2,350	1,580	1,400	1,530	2,270	3,450	2,920	1,830	1,350	1,240
10	891	2,840	2,170	1,510	1,380	1,530	2,170	3,100	2,970	1,730	1,350	1,230
11	896	3,820	2,160	1,500	1,350	1,530	2,170	2,940	3,140	1,700	1,340	1,230
12	896	4,270	2,110	1,630	1,340	1,650	2,240	2,900	3,300	1,650	1,340	1,220
13	891	2,990	2,110	2,060	1,630	1,590	2,160	2,690	3,450	1,620	1,330	1,220
14	885	2,440	1,970	2,780	1,670	2,250	2,150	2,550	3,450	1,600	1,340	1,210
15	880	2,300	1,930	7,190	1,660	3,430	2,150	2,540	3,400	1,590	1,340	1,210
16	880	2,740	1,970	9,780	1,780	3,070	2,110	2,380	3,300	1,580	1,340	1,210
17	880	2,440	2,530	6,910	1,720	3,180	2,200	2,250	3,100	1,570	1,340	1,240
18	863	2,110	2,500	5,380	1,800	2,900	2,360	2,130	3,100	1,580	1,340	1,240
19	852	1,860	2,240	5,360	2,120	2,700	2,340	2,060	3,100	1,560	1,320	1,230
20	880	1,780	2,280	3,800	1,940	2,500	2,250	1,980	3,000	1,540	1,350	1,220
21	976	1,700	2,620	3,170	1,860	2,300	2,240	1,910	2,800	1,530	1,340	1,210
22	1,360	1,600	2,400	2,790	1,790	2,200	2,410	1,920	2,700	1,510	1,320	1,200
23	1,230	1,550	2,230	2,520	1,700	2,100	2,550	2,070	2,600	1,490	1,330	1,200
24	1,300	1,490	2,150	2,430	1,690	2,100	2,440	2,110	2,500	1,490	1,310	1,190
25	1,150	1,460	2,500	2,370	1,680	2,100	2,270	2,480	2,400	1,470	1,300	1,190
26	1,050	1,400	2,360	2,250	1,680	2,200	2,170	2,890	2,300	1,470	1,290	1,190
27	988	1,460	2,460	2,150	1,640	2,400	2,090	3,130	2,200	1,460	1,280	1,190
28	1,010	1,680	2,740	2,050	1,690	2,800	2,100	3,100	2,200	1,460	1,280	1,180
29	1,110	2,340	3,050	1,990	------	3,700	2,270	2,900	2,090	1,450	1,280	1,180
30	1,010	3,150	2,760	1,930	------	5,200	2,590	2,750	2,120	1,430	1,270	1,180
31	994	------	2,460	2,000	------	4,400	------	2,730	------	1,430	1,270	------
TOTAL	30,003	63,000	72,040	89,700	48,490	72,320	73,880	83,150	87,680	50,990	41,440	36,660
MEAN	968	2,100	2,324	2,894	1,732	2,333	2,463	2,682	2,923	1,645	1,337	1,222
MAX	1,360	4,270	3,050	9,780	2,120	5,200	5,100	3,510	3,720	2,100	1,420	1,270
MIN	852	1,060	1,800	1,500	1,340	1,530	2,090	1,910	2,090	1,430	1,270	1,180
AC-FT	59,510	125,000	142,900	177,900	96,180	143,400	146,500	164,900	173,900	101,100	82,200	72,720

CAL YR 1973 TOTAL 531,432 MEAN 1,456 MAX 4,270 MIN 852 AC-FT 1,054,000
WTR YR 1974 TOTAL 749,353 MEAN 2,053 MAX 9,780 MIN 852 AC-FT 1,486,000

NOTE.--No gage-height record Aug. 31 to Sept. 30.

14332000 SOUTH FORK ROGUE RIVER NEAR PROSPECT, OREG.

LOCATION.--Lat 42°42'30", long 122°23'30", in SE¼SW¼ sec.7, T.33 S., R.4 E., Jackson County, on left bank 0.3 mi (0.5 km) downstream from South Fork dam and intake of South Fork power canal, 0.31 mi (0.50 km) downstream from Imnaha Creek, 5.6 mi (9.0 km) southeast of Prospect, and at mile 10.2 (16.4 km).

DRAINAGE AREA.--83.8 mi^2 (217 km^2). Area at site above Imnaha Creek used October 1931 to September 1949, 61.3 mi^2 (158.8 km^2), and Imnaha Creek near Prospect, 22.2 mi^2 (57.5 km^2).

PERIOD OF RECORD.--April 1924 to September 1931, October 1949 to current year. Equivalent records for period October 1931 to September 1949 may be obtained from combined flow of South Fork Rogue River above Imnaha Creek, near Prospect and Imnaha Creek near Prospect.

GAGE.--Water-stage recorder. Altitude of gage is 3,300 ft (1,006 m), from topographic map. Prior to Sept. 10, 1965, at site 1,000 ft (305 m) upstream at different datum.

AVERAGE DISCHARGE.--50 years (1924-74), 180 ft^3/s (5.10 m^3/s), 130,400 acre-ft/yr (161 hm^3/yr).

EXTREMES (River only).--Current year: Maximum discharge, 878 ft^3/s (24.9 m^3/s) Nov. 8, gage height, 4.28 ft (1.305 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 15-21.

Period of record: Maximum discharge, 7,010 ft^3/s (199 m^3/s) Dec. 22, 1964, gage height, 11.1 ft (3.38 m), from floodmark, from rating curve extended above 410 ft^3/s (11.6 m^3/s) on basis of measurement of flow over dam of 3,180 ft^3/s (90.1 m^3/s); no flow Jan. 31, 1950, Sept. 29, 30, 1967 (entire flow diverted to canal).

(Combined flow).--Current year: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Nov. 8; minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 17.

Period of record: Maximum discharge, 7,010 ft^3/s (199 m^3/s) Dec. 22, 1964 (no flow in canal); minimum daily, about 35 ft^3/s (0.99 m^3/s) in September 1931.

REMARKS.--Records good. All records given herein include flow in South Fork power canal (completed in March 1932) which diverts 1,500 ft (457 m) above station and returns water to Rogue River above South Fork Rogue River; practically no storage above diversion dam.

REVISIONS (WATER YEARS).--WSP 1318: 1925(M), 1927(M), 1930(M). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	130	272	424	266	186	632	398	451	230	146	106
2	71	105	243	382	246	182	570	407	487	223	145	106
3	70	97	231	344	239	174	507	396	501	214	144	105
4	70	96	219	320	234	172	461	408	521	206	143	104
5	70	158	213	295	223	173	453	448	782	202	142	103
6	70	516	212	271	216	178	435	509	648	200	143	102
7	72	359	315	260	209	171	399	556	551	197	138	102
8	71	805	351	251	204	166	387	584	496	198	137	102
9	69	496	304	239	199	165	371	577	481	198	135	108
10	68	400	279	227	195	168	343	514	498	193	133	106
11	68	466	275	225	191	166	336	489	520	189	131	99
12	68	555	265	218	189	166	338	491	534	185	130	99
13	68	407	261	247	182	164	325	439	537	182	128	98
14	67	329	247	264	180	227	318	396	529	179	127	99
15	67	314	245	366	177	361	317	373	504	175	126	99
16	66	342	252	650	180	356	307	342	476	173	124	97
17	60	306	297	639	171	391	313	318	476	172	122	97
18	66	266	245	659	200	401	325	300	473	171	123	97
19	65	236	277	720	243	374	323	282	455	170	123	96
20	67	226	323	591	216	354	310	269	401	166	122	96
21	86	213	361	511	215	336	310	264	373	164	119	96
22	134	202	325	458	207	328	335	269	356	163	118	96
23	114	195	304	417	200	316	365	287	335	162	115	96
24	150	187	299	382	195	310	344	297	317	159	114	94
25	108	184	464	359	195	327	326	366	301	158	113	95
26	88	176	387	331	196	344	307	448	280	156	111	95
27	81	186	399	312	187	353	290	506	265	154	110	94
28	90	215	529	297	190	381	283	499	253	154	109	93
29	92	248	651	276	------	439	303	462	245	152	108	93
30	84	275	545	265	------	656	340	434	237	150	107	93
31	83	------	478	273	------	575	------	421	------	148	106	------
TOTAL	2,475	8.690	10.118	11.473	5.745	9.060	10.973	12.749	13.283.	5.543	3.892	2.966
MEAN	79.8	290	326	370	205	292	366	411	443	179	126	98.9
MAX	150	805	651	720	266	656	632	584	782	230	146	108
MIN	60	96	212	218	171	164	283	264	237	148	106	93
AC-FT	4.910	17.240	20.070	22.760	11.400	17.970	21.760	25.290	26.350	10.990	7.720	5.880

CAL YR 1973 TOTAL 60.847 MEAN 167 MAX 805 MIN 60 AC-FT 120.700
WTR YR 1974 TOTAL 96.967 MEAN 266 MAX 805 MIN 60 AC-FT 192.300

14333500 RED BLANKET CREEK NEAR PROSPECT, OREG.

LOCATION.--Lat 42°46'40", long 122°25'35", in NW¼NE¼ sec.23, T.32 S., R.3 E., Jackson County, on right bank 1.8 mi (2.9 km) downstream from Lick Creek, 3.7 mi (6.0 km) northeast of Prospect, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--45.5 mi^2 (117.8 km^2).

PERIOD OF RECORD.--May 1925 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,780 ft (847 m), from river-profile map. Prior to Sept. 7, 1949, nonrecording gage at several sites within 2.5 mi (4.0 km) of present site at various datums.

AVERAGE DISCHARGE.--49 years, 117 ft^3/s (3.31 m^3/s), 84,770 acre-ft/yr (105 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 574 ft^3/s (16.3 m^3/s) Jan. 16, gage height, 3.81 ft (1.161 m); minimum, 60 ft^3/s (1.70 m^3/s) Oct. 1, 3-5, 15-19.
Period of record: Maximum discharge, 3,190 ft^3/s (90.3 m^3/s) Dec. 22, 1964, gage height, 7.85 ft (2.393 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); minimum observed, 34 ft^3/s (0.96 m^3/s) Sept. 3, 4, 25, Oct. 9, 16, 1931.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation. Small diversion above station for irrigation below.

REVISIONS (WATER YEARS).--WSP 1318: 1926-28, 1930. WSP 1348: 1943(M), 1948(M), 1953. WSP 1738: 1927(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	128	192	207	160	131	311	204	219	211	116	96
2	62	91	167	192	150	128	274	200	240	200	116	93
3	62	84	157	177	145	122	248	192	252	192	113	96
4	62	82	146	170	140	122	227	188	265	185	113	96
5	63	131	140	160	135	125	223	207	375	181	113	96
6	68	274	143	150	130	131	215	236	320	177	111	96
7	68	188	248	143	128	122	207	256	288	170	111	93
8	65	400	231	137	128	119	204	265	261	174	108	93
9	63	270	200	131	128	116	200	261	256	170	108	93
10	63	261	185	128	128	119	188	231	270	160	108	93
11	63	385	188	125	128	119	188	219	292	153	106	93
12	63	359	181	128	128	125	188	215	311	150	106	91
13	63	248	177	160	128	122	181	204	325	146	106	91
14	62	215	170	167	128	211	177	192	335	143	106	91
15	62	204	167	240	128	306	177	185	320	140	103	91
16	62	223	170	510	135	274	174	181	311	143	103	91
17	62	204	219	395	138	279	174	170	320	146	103	88
18	62	177	200	320	150	261	181	163	330	143	103	88
19	62	157	185	320	170	240	181	157	311	143	103	88
20	65	150	219	270	160	219	177	151	270	140	103	91
21	93	140	256	240	150	207	174	150	265	137	101	88
22	125	131	219	220	140	200	181	148	265	134	103	88
23	106	128	200	205	135	192	188	146	261	134	101	88
24	113	122	196	195	132	188	185	153	252	128	101	88
25	88	119	261	185	130	192	177	177	240	125	101	88
26	78	113	215	175	128	196	170	207	219	122	98	88
27	74	125	231	165	128	204	163	231	211	122	98	86
28	86	140	261	160	131	215	160	227	207	122	98	86
29	80	170	325	155	------	270	160	211	207	119	96	86
30	76	204	270	150	------	400	177	207	211	119	96	86
31	82	------	236	155	------	315	------	204	------	116	96	------
TOTAL	2,266	5,623	6,355	6,235	3,839	5,970	5,830	6,138	8,209	4,645	3,248	2,720
MEAN	73.1	187	205	201	137	193	194	198	274	150	105	90.7
MAX	125	400	325	510	170	400	311	265	375	211	116	96
MIN	62	82	140	125	128	116	160	146	207	116	96	86
AC-FT	4,490	11,150	12,610	12,370	7,610	11,840	11,560	12,170	16,280	9,210	6,440	5,400

CAL YR 1973 TOTAL 41,636 MEAN 114 MAX 400 MIN 56 AC-FT 82,590
WTR YR 1974 TOTAL 61,078 MEAN 167 MAX 510 MIN 62 AC-FT 121,100

NOTE.--No gage-height record Jan. 18 to Feb. 26.

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1200	3.44	369	12-29	1030	3.43	349
11- 8	1030	3.68	499	1-16	1430	3.81	574
11-11	2030	3.62	460	3-15	0530	3.35	330
12- 7	1430	3.34	306	3-30	0930	3.53	427
12-25	0130	3.34	306				

14334700 SOUTH FORK ROGUE RIVER, SOUTH OF PROSPECT, OREG.

LOCATION.--Lat 42°42'45", long 122°30'20", in NW¼SE¼ sec.7, T.33 S., R.3 E., Jackson County, on right bank 200 ft (61 m) upstream from unnamed tributary, 0.6 mi (1.0 km) upstream from Smith Creek, 1.2 mi (1.9 km) downstream from Beaver Creek, 2.8 mi (4.5 km) southwest of Prospect, and at mile 2.4 (3.9 km).

DRAINAGE AREA.--246 mi² (637 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,030 ft (619 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 457 ft³/s (12.9 m³/s), 331,100 acre-ft/yr (408 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,070 ft³/s (86.9 m³/s) Jan. 16, gage height, 8.68 ft (2.646 m); minimum, 68 ft³/s (1.93 m³/s) Oct. 3, 5.

Period of record: Maximum discharge, 9,880 ft³/s (280 m³/s) Mar. 3, 1972, gage height, 12.71 ft (3.874 m), from floodmark; minimum daily, 54 ft³/s (1.53 m³/s) Sept. 24-30, 1970.

Maximum stage since at least 1890, 20.1 ft (6.13 m), Dec. 22, 1964, from floodmarks at gage, discharge, 28,500 ft³/s (807 m³/s).

REMARKS.--Records good. Some regulation by South Fork power canal dam upstream. Power diversions above station from South Fork Rogue River, Middle Fork Rogue River, and Red Blanket Creek divert water to Rogue River via Main Canal. During summer base flow all of streamflow is diverted for power except that for fish life. Base flow at station is principally from springs downstream from power diversions. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	289	903	1.030	729	548	2.000	761	837	603	203	130
2	70	171	747	898	669	548	1.700	779	935	536	203	130
3	70	127	669	813	632	494	1.400	747	974	505	196	130
4	70	116	603	734	656	476	1.300	752	1.030	487	194	130
5	69	400	559	677	591	490	1.210	813	1.700	476	190	130
6	72	1.420	544	627	559	567	1.120	946	1.370	461	190	127
7	78	857	919	575	528	517	996	1.070	1.150	439	186	127
8	72	2.090	1.010	540	513	479	952	1.140	974	446	184	125
9	71	1.270	847	505	490	464	898	1.120	946	450	182	142
10	71	1.070	756	464	472	461	847	968	996	411	181	153
11	71	1.400	756	443	450	468	822	893	1.070	393	181	122
12	71	1.570	712	461	439	517	808	898	1.150	376	181	125
13	71	1.130	743	648	432	532	761	798	1.180	362	179	128
14	71	968	698	729	393	952	734	720	1.180	352	179	128
15	70	898	673	1.390	418	1.540	725	681	1.130	346	164	125
16	71	941	686	2.820	450	1.400	690	640	1.050	333	148	127
17	72	832	893	2.420	411	1.390	686	603	1.070	323	143	127
18	70	720	867	2.300	686	1.340	712	563	1.100	314	150	128
19	74	591	784	2.330	827	1.180	707	528	1.060	301	151	128
20	80	555	877	1.750	700	1.100	673	536	893	292	150	124
21	118	513	1.030	1.440	620	1.020	660	571	852	280	147	124
22	244	472	887	1.240	580	941	698	571	832	272	145	121
23	186	450	813	1.070	560	857	756	603	808	269	145	122
24	223	443	756	985	540	808	729	619	766	263	143	121
25	147	439	1.150	919	528	827	698	703	720	250	143	121
26	108	418	941	887	532	900	640	842	656	229	142	121
27	99	446	1.000	827	502	950	603	968	636	225	140	121
28	112	552	1.330	743	532	1.100	575	974	595	220	137	121
29	119	738	1.750	673	------	1.300	595	887	599	216	131	121
30	103	935	1.440	640	------	2.100	656	842	611	211	131	119
31	102	------	1.230	694	------	1.800	------	784	------	205	131	------
TOTAL	2.996	22.821	27.573	32.272	15.439	28.066	26.351	24.320	28.870	10.846	5.070	3.798
MEAN	96.6	761	889	1.041	551	905	878	785	962	350	164	127
MAX	244	2.090	1.750	2.820	827	2.100	2.000	1.140	1.700	603	203	153
MIN	69	116	544	443	393	461	575	528	595	205	131	119
AC-FT	5.940	45.270	54.690	64.010	30.620	55.670	52.270	48.240	57.260	21.510	10.060	7.530

CAL YR 1973 TOTAL 116.120 MEAN 318 MAX 2.090 MIN 63 AC-FT 230.300
WTR YR 1974 TOTAL 228.422 MEAN 626 MAX 2.820 MIN 69 AC-FT 453.100

14335500 SOUTH FORK BIG BUTTE CREEK NEAR BUTTE FALLS, OREG.

LOCATION.--Lat 42°32'25", long 122°33'15", in NE¼SW¼ sec.11, T.35 S., R.2 E., Jackson County, on right bank 10 ft (3 m) downstream from Ginger Creek, 0.6 mi (1.0 km) east of town of Butte Falls, and at mile 14.0 (22.5 km).

DRAINAGE AREA.--138 mi² (357 km²).

PERIOD OF RECORD.--September 1910 to October 1911 (published as "at Butte Falls"), August to October 1915, October 1917 to September 1922, March 1925 to current year. Monthly discharge only August, September 1915, published in WSP 1318.

GAGE.--Water-stage recorder. Concrete control since Oct. 1, 1968. Altitude of gage is 2,360 ft (719 m), from river-profile map. Sept. 21, 1910, to Sept. 30, 1922, nonrecording gage at site 300 ft (91 m) upstream at different datums.

AVERAGE DISCHARGE.--55 years (1910-11, 1917-22, 1925-74), 161 ft³/s (4.56 m³/s), 116,600 acre-ft/yr (144 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft³/s (29.2 m³/s) Apr. 1, gage height, 3.00 ft (0.914 m); minimum, 50 ft³/s (1.42 m³/s) Oct. 18.

Period of record: Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1964, gage height, 7.65 ft (2.332 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement of peak flow; minimum, 33 ft³/s (0.93 m³/s) Oct. 2, 1968.

REMARKS.--Records good. Flow slightly regulated since 1952 by Willow Creek Reservoir, capacity, 7,320 acre-ft (9.03 hm³). Diversions for irrigation above station and for municipal water supply for Medford (since 1927) and Butte Falls.

REVISIONS (WATER YEARS).--WSP 1288: 1911, 1918-19, 1921-22, 1929. WSP 1318: 1918-19. WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	75	290	374	269	357	849	249	137	91	77	77
2	57	67	240	325	242	357	779	253	140	91	75	79
3	57	65	195	293	228	317	628	245	137	89	77	79
4	55	65	150	269	249	297	535	242	137	87	77	79
5	55	202	120	245	228	301	505	238	172	89	79	79
6	55	333	140	214	214	361	490	249	166	87	83	79
7	57	186	190	203	207	333	435	249	151	87	83	79
8	57	281	249	189	200	301	410	253	140	93	81	79
9	57	182	228	179	193	289	415	253	134	91	81	79
10	57	142	210	163	186	289	379	235	129	89	81	81
11	57	154	214	160	179	293	361	224	126	87	79	81
12	57	224	200	169	179	329	357	217	123	85	79	81
13	55	200	238	238	175	345	337	207	118	85	79	79
14	55	193	231	253	175	465	321	196	116	83	79	77
15	55	169	217	293	169	600	317	193	111	83	79	79
16	55	175	217	500	203	605	301	189	106	83	81	79
17	55	169	265	510	189	600	297	200	106	83	79	77
18	55	160	273	560	305	565	293	200	103	83	81	77
19	55	134	269	555	575	515	297	193	106	83	83	77
20	57	142	301	495	475	470	281	179	108	81	81	77
21	77	145	289	425	406	420	269	169	103	79	81	77
22	123	137	261	374	357	392	265	163	101	79	79	77
23	93	145	249	333	317	365	301	160	101	81	81	77
24	87	170	235	309	305	345	301	151	98	83	79	79
25	71	260	289	309	301	345	297	151	98	83	79	79
26	65	270	277	289	309	345	273	154	98	83	79	79
27	63	210	313	265	297	349	265	160	96	83	77	79
28	73	170	415	253	325	392	245	163	93	83	79	79
29	73	220	590	235	------	401	242	157	91	81	75	79
30	65	315	510	224	------	600	245	151	93	81	79	79
31	65	------	440	249	------	565	------	140	------	79	77	------
TOTAL	1,975	5,360	8,325	9,452	7,457	12,508	11,290	6,183	3,538	2,625	2,459	2,358
MEAN	63.7	179	269	305	266	403	376	199	118	84.7	79.3	78.6
MAX	123	333	590	560	575	605	849	253	172	93	83	81
MIN	55	65	120	160	169	289	242	140	91	79	75	77
AC-FT	3,920	10,630	16,510	18,750	14,790	24,810	22,390	12,260	7,020	5,210	4,880	4,680

CAL YR 1973 TOTAL 43,908 MEAN 120 MAX 590 MIN 55 AC-FT 87,090
WTR YR 1974 TOTAL 73,530 MEAN 201 MAX 849 MIN 55 AC-FT 145,800

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1230	2.10	460	2-19	0400	2.40	610
12-29	0330	2.40	610	3-17	0830	2.41	616
1-18	1900	2.44	634	4- 1	1200	3.00	1,030

14337500 BIG BUTTE CREEK NEAR MCLEOD, OREG.

LOCATION.--Lat 42°39'05", long 122°41'25", in NE¼NW¼ sec.3, T.34 S., R.1 E., Jackson County, on right bank 225 ft (69 m) upstream from county road bridge, 0.9 mi (1.4 km) south of McLeod, and at mile 0.64 (1.03 km).

DRAINAGE AREA.--245 mi² (635 km²).

PERIOD OF RECORD.--October 1945 to September 1957. October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,525.95 ft (465.110 m) above mean sea level. Oct. 9, 1945, to Sept. 30, 1957, nonrecording gage at site 260 ft (79 m) downstream at datum 0.53 ft (0.162 m) higher.

AVERAGE DISCHARGE.--19 years, 312 ft³/s (8.84 m³/s), 226,000 acre-ft/yr (279 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,630 ft³/s (103 m³/s) Apr. 1, gage height, 8.89 ft (2.710 m); minimum, 52 ft³/s (1.47 m³/s) Oct. 19.

Period of record: Maximum discharge, 8,950 ft³/s (253 m³/s) Dec. 22, 1955, gage height, 12.75 ft (3.886 m), site and datum then in use, from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 29 ft³/s (0.82 m³/s) May 3, 1968.

Flood of Dec. 22, 1964, reached a stage of 18.6 ft (5.67 m), present site, from floodmark by local resident, discharge, 16,800 ft³/s (476 m³/s), from rating curve, at former site, extended above 9,000 ft³/s (255 m³/s) and field estimate of overflow.

REMARKS.--Records good. Slight regulation by fish hatchery 600 ft (183 m) above station. Several diversions in the vicinity of Butte Falls, the two largest being the city of Medford diversion and Eagle Point Irrigation District Canal. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	82	905	675	585	980	2,560	363	163	110	74	68
2	124	78	661	552	484	900	1,840	331	166	108	73	65
3	122	62	516	488	436	715	1,330	324	163	108	71	64
4	122	65	436	420	524	652	1,050	314	161	100	74	70
5	122	1,260	389	370	456	648	955	310	201	102	77	64
6	126	1,600	359	352	400	910	900	310	209	104	80	62
7	124	560	715	314	370	733	787	310	183	106	80	61
8	122	1,100	612	254	349	616	729	310	173	116	79	62
9	120	484	500	244	331	564	787	307	163	124	77	61
10	118	356	428	232	314	544	733	289	154	112	76	61
11	118	548	452	220	298	572	702	280	152	108	76	61
12	118	778	464	265	304	715	684	271	147	104	73	62
13	118	648	875	980	300	715	625	256	145	100	70	62
14	116	657	666	965	290	1,120	589	241	143	95	70	59
15	116	488	536	1,950	286	1,420	572	238	137	93	70	61
16	116	448	504	2,590	456	1,290	548	238	135	93	70	61
17	116	412	774	1,800	356	1,220	528	253	137	95	68	59
18	110	370	670	1,970	835	1,090	520	256	132	95	70	61
19	54	243	589	1,550	1,370	950	520	256	137	93	73	61
20	56	321	639	1,150	965	830	496	220	141	90	73	59
21	83	359	630	940	935	729	472	207	135	90	70	58
22	217	321	512	835	805	657	464	201	128	90	71	59
23	132	386	472	742	666	598	500	193	130	85	68	59
24	114	488	424	657	607	552	540	186	130	83	68	61
25	79	625	534	607	576	544	496	183	128	85	67	59
26	65	552	516	552	598	528	392	186	126	83	67	58
27	59	460	657	500	556	548	363	191	122	82	68	58
28	77	432	860	456	742	880	338	191	116	82	68	58
29	82	747	1,400	416	------	1,150	324	186	110	79	67	59
30	64	1,090	985	388	------	1,630	345	181	112	79	67	59
31	61	------	820	492	------	1,220	------	171	------	76	67	------
TOTAL	3,283	16,050	19,493	23,931	15,194	26,220	21,689	7,753	4,379	2,970	2,222	1,832
MEAN	106	535	629	772	543	846	723	250	146	95.8	71.7	61.1
MAX	217	1,600	1,400	2,590	1,370	1,630	2,560	363	209	124	80	70
MIN	54	62	359	220	286	528	324	171	110	76	67	58
AC-FT	6,510	31,840	38,660	47,470	30,140	52,010	43,020	15,380	8,690	5,890	4,410	3,630

CAL YR 1973 TOTAL 73,136 MEAN 200 MAX 1,600 MIN 41 AC-FT 145,100
WTR YR 1974 TOTAL 145,016 MEAN 397 MAX 2,590 MIN 54 AC-FT 287,600

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	1900	8.25	3,090	1-19	0030	6.57	1,840
12-29	0130	6.60	1,860	3-30	0030	7.09	2,190
1-15	2200	8.30	3,130	4- 1	1000	8.89	3,630

14337600 ROGUE RIVER NEAR MCLEOD, OREG.

LOCATION.--Lat 42°39'20", long 122°42'30", in SW¼ sec.33, T.33 S., R.1 E., Jackson County, on left bank at Obstinate J Ranch, 1.3 mi (2.1 km) downstream from Big Butte Creek, 1.6 mi (2.6 km) southwest of McLeod, and at mile 154.0 (247.8 km).

DRAINAGE AREA.--983 mi² (2,429 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,489.08 ft (453.872 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 2,242 ft³/s (63.5 m³/s), 1,624,000 acre-ft/yr (2.00 km³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 16, gage height, 9.34 ft (2.847 m); minimum, 839 ft³/s (23.8 m³/s) Sept. 23.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) Mar. 3, 1972, gage height, 12.24 ft (3.731 m); minimum, 604 ft³/s (17.1 m³/s) Sept. 5, 1968.

Maximum stage since at least 1928, 20.35 ft (6.203 m) Dec. 22, 1964, from floodmarks, discharge, 74,300 ft³/s (2,104 m³/s), from slope-area measurement of peak flow.

REMARKS.--Records good. Some fluctuation caused by powerplant 15.4 mi (24.8 km) above station. Diversions for irrigation above station; most of flow of Big Butte Creek is diverted near Butte Falls. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	1,750	5,460	4,070	3,750	3,740	9,540	4,070	3,840	2,780	1,610	1,350
2	1,060	1,460	4,230	3,520	3,470	3,620	7,720	3,990	4,230	2,640	1,600	1,340
3	1,060	1,310	3,700	3,330	3,200	3,200	6,260	3,840	4,360	2,520	1,590	1,330
4	1,060	1,280	3,330	3,160	3,300	3,050	5,340	3,840	4,360	2,450	1,580	1,340
5	1,050	3,230	3,140	2,940	3,080	3,080	4,980	4,120	5,820	2,400	1,520	1,340
6	1,070	6,660	2,980	2,640	2,870	3,630	4,830	4,670	5,320	2,340	1,530	1,340
7	1,110	3,660	4,430	2,600	2,780	3,240	4,410	5,060	4,690	2,290	1,510	1,330
8	1,070	7,000	4,960	2,490	2,700	2,910	4,230	5,180	4,230	2,280	1,500	1,330
9	1,060	5,100	4,260	2,450	2,560	2,840	4,240	5,160	4,080	2,380	1,480	1,320
10	1,060	4,780	3,630	2,450	2,520	2,800	3,990	4,530	4,160	2,200	1,470	1,360
11	1,060	6,440	3,560	2,600	2,530	2,820	3,890	4,210	4,410	2,150	1,470	1,330
12	1,060	7,880	3,580	2,800	2,420	3,260	3,940	4,180	4,620	2,070	1,450	1,220
13	1,060	5,780	4,290	4,500	2,460	3,230	3,750	3,840	4,710	2,030	1,440	1,320
14	1,040	4,870	3,750	8,000	2,460	4,240	3,630	3,600	4,710	2,000	1,450	1,310
15	1,040	4,340	3,480	11,000	2,340	5,220	3,620	3,500	4,600	1,960	1,440	1,310
16	1,040	4,780	3,510	16,000	2,670	5,580	3,500	3,320	4,260	1,940	1,420	1,310
17	1,030	4,340	4,730	13,600	2,630	5,740	3,530	3,170	4,290	1,930	1,420	1,300
18	1,020	3,700	4,640	11,200	3,510	5,280	3,710	3,020	4,330	1,900	1,420	1,300
19	956	3,160	4,070	10,900	4,710	4,960	3,690	2,880	4,290	1,890	1,390	1,300
20	992	2,960	4,100	7,960	4,040	4,570	3,540	2,740	3,780	1,850	1,430	1,290
21	1,160	2,880	4,740	6,290	3,780	4,350	3,480	2,680	3,500	1,810	1,410	1,290
22	1,940	2,850	4,260	5,340	3,570	4,210	3,630	2,680	3,450	1,800	1,400	1,290
23	1,680	2,820	3,940	4,780	3,230	4,020	3,880	2,840	3,400	1,770	1,410	1,260
24	1,750	2,850	3,630	4,360	3,090	3,840	3,840	2,900	3,250	1,750	1,390	1,300
25	1,470	3,000	4,600	4,160	3,030	3,900	3,620	3,270	3,100	1,720	1,380	1,290
26	1,280	2,840	4,260	3,920	3,080	4,200	3,350	3,880	3,000	1,700	1,370	1,280
27	1,160	2,740	4,460	3,660	2,970	4,600	3,180	4,350	2,870	1,680	1,360	1,250
28	1,210	2,960	5,630	3,480	3,300	5,300	3,060	4,350	2,800	1,670	1,360	1,270
29	1,370	4,290	7,040	3,290	------	7,000	3,240	4,070	2,770	1,650	1,350	1,260
30	1,220	6,220	5,920	3,140	------	9,700	3,570	3,840	2,810	1,640	1,340	1,260
31	1,170	------	4,870	3,360	------	7,620	------	3,720	------	1,630	1,350	------
TOTAL	36,358	117,970	133,080	163,990	86,250	135,770	127,190	117,500	120,040	62,820	44,840	39,220
MEAN	1,173	3,932	4,293	5,290	3,080	4,380	4,240	3,790	4,001	2,026	1,446	1,307
MAX	1,940	7,880	7,040	16,000	4,710	9,700	9,540	5,180	5,820	2,780	1,610	1,360
MIN	956	1,280	2,980	2,450	2,340	2,800	3,060	2,680	2,770	1,630	1,340	1,250
AC-FT	72,120	234,000	264,000	325,300	171,100	269,300	252,300	233,100	238,100	124,600	88,940	77,790

CAL YR 1973 TOTAL 734,375 MEAN 2,012 MAX 7,880 MIN 911 AC-FT 1,457,000
WTR YR 1974 TOTAL 1,185,028 MEAN 3,247 MAX 16,000 MIN 956 AC-FT 2,351,000

14337800 ELK CREEK NEAR CASCADE GORGE, OREG.

LOCATION.--Lat 42°46'25", long 122°40'15", in NW¼ sec.23, T.32 S., R.1 E., Jackson County, on right bank 0.1 mi (0.2 km) downstream from Sugarpine Creek, 6.5 mi (10.5 km) northwest of town of Cascade Gorge, and at mile 10.7 (17.2 km).

DRAINAGE AREA.--78.8 mi^2 (204.1 km^2).

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,820 ft (555 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 6,780 ft^3/s (192 m^3/s) Jan. 15, gage height, 8.9 ft (2.71 m), from floodmark; minimum, 0.99 ft^3/s (0.028 m^3/s) Sept. 26-28, 30.

Period of record: Maximum discharge, 6,780 ft^3/s (192 m^3/s) Jan. 15, 1974, gage height, 8.9 ft (2.71 m), from floodmark; minimum daily, 0.72 ft^3/s (0.020 m^3/s) Aug. 24, 1973.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation. Many diversions above station for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	52	1,160	370	540	500	1,660	217	120	22	6.6	2.1
2	4.1	38	654	300	390	455	1,100	199	120	21	6.3	1.9
3	4.6	29	475	250	298	325	667	187	120	20	6.3	1.7
4	5.2	28	386	190	281	274	490	187	120	20	5.8	1.6
5	5.8	786	325	150	246	288	435	211	140	18	5.5	1.6
6	5.8	2,180	345	135	211	425	400	239	120	18	5.8	1.7
7	6.0	480	1,160	120	187	341	341	246	100	19	5.8	1.9
8	6.6	1,770	918	105	170	274	302	235	90	20	5.8	1.7
9	5.8	709	558	98	160	229	291	200	85	20	5.8	1.7
10	5.4	594	450	90	158	217	263	190	79	18	5.2	2.1
11	5.2	807	435	94	155	239	270	170	77	16	5.5	2.3
12	4.9	1,140	390	300	153	377	295	150	76	16	5.2	3.8
13	5.4	723	520	900	141	368	274	135	71	16	5.2	4.1
14	6.3	779	570	2,000	141	1,050	253	120	67	14	4.9	3.8
15	5.0	894	580	5,200	139	1,530	235	125	61	13	5.2	3.5
16	4.7	1,030	680	4,600	246	1,080	220	120	58	12	4.9	3.5
17	5.0	636	960	2,340	239	863	220	125	56	11	4.6	3.2
18	4.6	415	720	2,000	490	648	232	120	51	10	4.3	3.2
19	4.9	291	520	1,530	1,050	500	217	110	49	11	4.6	3.2
20	7.2	267	440	835	535	430	196	105	45	10	5.2	2.9
21	27	267	540	525	415	368	187	100	41	9.4	4.6	2.6
22	74	253	480	390	341	329	196	100	37	8.6	4.9	2.9
23	68	260	400	313	281	295	202	105	35	8.6	4.9	3.2
24	65	302	360	274	256	274	202	105	34	8.6	4.9	3.2
25	43	302	480	263	260	274	190	110	32	8.3	4.6	2.9
26	28	288	420	256	295	277	175	120	31	8.3	4.3	1.9
27	21	390	500	239	284	305	158	140	29	8.3	2.9	.99
28	25	624	700	232	405	636	150	130	28	8.3	2.3	1.1
29	38	1,390	1,050	217	------	1,220	163	125	26	8.3	2.1	1.2
30	27	1,970	700	202	------	1,910	196	120	25	7.8	2.1	1.2
31	24	------	510	337	------	950	------	115	------	7.2	1.9	------
TOTAL	548.0	19,694	18,386	24,855	8,467	17,251	10,180	4,661	2,023	418.7	148.0	72.69
MEAN	17.7	656	593	802	302	556	339	150	67.4	13.5	4.77	2.42
MAX	74	2,180	1,160	5,200	1,050	1,910	1,660	246	140	22	6.6	4.1
MIN	4.1	28	325	90	139	217	150	100	25	7.2	1.9	.99
AC-FT	1,090	39,060	36,470	49,300	16,790	34,220	20,190	9,250	4,010	830	294	144

WTR YR 1974 TOTAL 106,704.39 MEAN 292 MAX 5,200 MIN .99 AC-FT 211,600

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0730	7.19	3,400	1-15	1800	8.9	6,780
11- 8	0830	6.79	2,810	3-14	2200	6.19	2,030
11-30	1100	6.58	2,510	3-30	0400	6.79	2,810
12- 7	1530	5.89	1,690	4- 1	0830	6.24	2,090

NOTE.--No gage-height record Dec. 13 to Jan. 16, May 8 to June 10.

14337870 WEST BRANCH ELK CREEK NEAR TRAIL, OREG.

LOCATION.--Lat 42°42'40", long 122°44'55", in SW¼ sec.7, T.33 S., R.1 E., Jackson County, on Bureau of Land Management land, on left bank 300 ft (91 m) upstream from Spot Creek and 5.3 mi (8.5 km) northeast of Trail.

DRAINAGE AREA.--14.2 mi^2 (36.8 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,773.24 ft (540.484 m) above mean sea level (Corps of Engineers bench mark).

EXTREMES.--Maximum discharge, 1,410 ft^3/s (39.9 m^3/s) Jan. 15, gage height, 5.30 ft (1.615 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.90 ft^3/s (0.025 m^3/s) Oct. 5.

REMARKS.--Records good except those Jan. 15 to June 10, which are poor. No regulation or diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	17	152	53	162	264	320	17	10	3.9	1.5	1.7
2	1.0	17	86	40	100	191	210	17	10	3.6	1.5	1.5
3	1.0	14	69	30	71	79	152	16	10	3.6	1.5	1.5
4	1.0	14	50	24	60	57	95	15	11	3.3	1.5	1.5
5	.90	168	40	21	48	73	73	15	12	3.3	1.5	1.7
6	1.2	355	41	19	43	128	57	15	11	3.6	1.5	1.7
7	1.3	79	142	18	40	98	47	14	11	3.6	1.4	1.5
8	1.3	327	93	16	37	75	46	14	9.6	3.9	1.4	1.5
9	1.3	88	77	14	35	77	40	13	9.3	4.5	1.2	1.7
10	1.3	84	57	11	34	58	38	13	7.1	3.6	1.2	1.7
11	1.3	116	48	10	33	69	37	13	7.4	3.6	1.2	1.7
12	1.3	152	47	16	33	162	39	13	7.4	3.1	1.3	1.5
13	1.3	100	69	296	30	124	37	13	7.1	3.1	1.7	1.5
14	1.2	112	82	408	28	191	33	13	6.8	2.8	1.8	1.4
15	1.2	128	79	904	29	296	30	13	6.8	2.6	1.7	1.4
16	1.3	100	88	559	42	296	28	14	6.8	2.6	1.8	1.4
17	1.3	88	100	355	43	215	25	16	6.8	2.6	2.2	1.4
18	1.3	55	86	296	75	133	23	15	6.8	2.6	2.4	1.4
19	1.3	33	75	317	239	84	22	15	6.8	2.6	2.8	1.4
20	2.0	28	61	284	152	50	22	15	6.1	2.4	2.6	1.4
21	15	30	77	179	95	41	20	15	6.1	2.2	2.4	1.4
22	25	33	75	84	79	34	20	14	6.1	2.2	2.2	1.4
23	25	34	55	53	62	31	20	13	6.1	2.2	2.0	1.4
24	17	51	46	44	47	31	21	13	5.8	2.2	1.8	1.4
25	13	53	60	42	51	31	21	12	5.5	2.0	1.8	1.4
26	9.5	54	57	40	66	27	21	12	4.8	2.0	1.8	1.4
27	7.9	68	64	40	62	33	20	12	4.5	1.8	1.8	1.5
28	13	95	86	39	173	128	20	11	4.2	1.8	1.8	1.5
29	15	219	137	39	------	260	18	11	3.9	1.7	1.7	1.5
30	11	344	91	37	------	296	18	11	3.9	1.7	1.7	1.7
31	10	------	75	61	------	224	------	11	------	1.5	1.7	------
TOTAL	186.20	3.056	2.365	4,349	1.969	3.856	1.573	424	220.7	86.2	54.4	45.1
MEAN	6.01	102	76.3	140	70.3	124	52.4	13.7	7.36	2.78	1.75	1.50
MAX	25	355	152	904	239	296	320	17	12	4.5	2.8	1.7
MIN	.90	14	40	10	28	27	18	11	3.9	1.5	1.2	1.4
CFSM	.42	7.18	5.37	9.86	4.95	8.73	3.69	.96	.52	.20	.12	.11
IN.	.49	8.01	6.20	11.39	5.16	10.10	4.12	1.11	.58	.23	.14	.12
AC-FT	369	6.060	4.690	8.630	3.910	7.650	3.120	841	438	171	108	89

WTR YR 1974 TOTAL 18.184.60 MEAN 49.8 MAX 904 MIN .90 CFSM 3.51 IN 47.64 AC-FT 36.070

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0830	3.62	585	3- 1	1800	2.82	307
11- 8	0930	3.49	536	3-15	2100	2.94	348
11-30	1230	3.23	444	3-30	0300	3.10	401
1-15	2000	5.30	1,410	4- 1	0730	3.19	431
2-19	0930	2.83	310				

14338000 ELK CREEK NEAR TRAIL, OREG.

LOCATION.--Lat 42°39'50", long 122°44'50", in SW¼ sec.30, T.33 S., R.1 E., Jackson County, on right bank 3.3 mi (5.3 km) northeast of Trail and at mile 0.4 (0.6 km).

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--October 1945 to current year. Prior to March 1946 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,456.56 ft (443.959 m) above mean sea level. Prior to July 5, 1946, nonrecording gage at various sites within 1.0 mi (1.6 km) of present site at different datums. July 5, 1946, to June 22, 1950, nonrecording gage, and June 23, 1950, to May 23, 1954, water-stage recorder, at site 0.3 mi (0.5 km) upstream at datum 12.14 ft (3.700 m) higher.

AVERAGE DISCHARGE.--29 years, 239 ft^3/s (6.77 m^3/s), 173,200 acre-ft/yr (214 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft^3/s (300 m^3/s) Jan. 15, gage height, 13.00 ft (3.962 m), from high-water mark in well; minimum, 2.0 ft^3/s (0.057 m^3/s) Sept. 28, 29.

Period of record: Maximum discharge, 19,200 ft^3/s (544 m^3/s) Dec. 22, 1964, gage height, 18.84 ft (5.742 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.40 ft^3/s (0.011 m^3/s) Aug. 16, 1965.

REMARKS.--Records good. No regulation. Diversions above station for irrigation. Records of chemical analyses and water temperatures for the current water year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	68	1,740	555	915	953	2,760	324	128	32	10	4.5
2	7.8	67	1,010	425	685	915	1,700	305	131	30	8.9	4.9
3	7.3	47	715	356	525	652	1,030	287	129	29	8.4	5.7
4	6.7	39	570	312	474	525	747	250	129	28	8.9	5.7
5	6.7	1,060	465	250	422	520	636	263	167	27	10	6.6
6	7.0	3,820	470	207	373	758	574	291	145	26	8.9	6.1
7	7.8	838	1,490	179	331	652	488	298	128	27	8.4	4.1
8	8.3	2,530	1,280	153	302	506	435	284	117	29	8.4	4.5
9	8.1	1,080	805	145	280	426	413	270	108	30	8.4	6.1
10	7.8	898	635	140	270	393	369	225	102	27	8.4	6.1
11	7.6	1,160	590	140	263	418	373	207	97	25	8.4	6.1
12	7.3	1,690	575	250	257	631	422	193	93	24	8.0	5.7
13	7.3	1,130	800	1,460	240	652	397	172	88	21	8.4	5.3
14	8.8	1,240	865	2,940	231	1,150	361	150	83	20	8.4	5.3
15	7.6	1,430	860	8,160	225	1,970	342	158	79	19	8.0	5.3
16	7.0	1,360	904	7,040	353	1,420	320	150	73	19	8.0	4.9
17	7.6	962	1,460	3,480	373	1,140	313	153	71	16	8.4	4.9
18	7.0	635	1,080	2,640	625	896	327	143	65	16	10	4.5
19	6.7	429	745	2,110	1,700	690	313	135	60	15	9.4	4.1
20	8.8	380	655	1,190	947	589	291	128	59	14	8.0	4.1
21	26	420	827	806	718	502	273	122	54	15	8.4	3.7
22	118	416	735	605	605	448	284	120	50	14	8.4	3.4
23	109	443	615	497	488	401	298	122	47	13	8.0	3.4
24	107	585	525	422	430	365	305	120	45	14	8.0	3.4
25	70	615	730	401	448	357	302	128	42	13	8.0	3.0
26	45	605	630	397	520	361	280	148	39	12	6.6	3.0
27	32	685	735	377	511	381	263	164	37	13	6.1	3.0
28	30	1,030	1,180	365	690	940	250	158	36	13	5.3	2.4
29	64	1,840	1,610	350	------	1,720	260	148	35	13	5.3	2.1
30	44	2,750	1,060	331	------	2,890	291	133	34	12	4.9	2.4
31	33	------	745	479	------	1,440	------	126	------	10	4.9	------
TOTAL	829.3	30,252	27,106	37,162	14,201	25,661	15,417	5,875	2,471	616	247.6	134.3
MEAN	26.8	1,008	874	1,199	507	828	514	190	82.4	19.9	7.99	4.48
MAX	118	3,820	1,740	8,160	1,700	2,890	2,760	324	167	32	10	6.6
MIN	6.7	39	465	140	225	357	250	120	34	10	4.9	2.1
AC-FT	1,640	60,000	53,760	73,710	28,170	50,900	30,580	11,650	4,900	1,220	491	266

CAL YR 1973 TOTAL 88,394.16 MEAN 242 MAX 3,820 MIN .91 AC-FT 175,300
WTR YR 1974 TOTAL 159,972.20 MEAN 438 MAX 8,160 MIN 2.1 AC-FT 317,300

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0900	10.44	6,560	1-15	1830	13.00	10,600
11- 8	1100	8.79	4,180	3-30	0330	8.27	3,810
11-30	1300	8.24	3,450	4- 1	1000	8.06	3,570

14339000 ROGUE RIVER AT DODGE BRIDGE, NEAR EAGLE POINT, OREG.

LOCATION.--Lat 42°31'30", long 122°50'30", in SE¼ sec.17, T.35 S., R.1 W., Jackson County, on right bank 50 ft (15 m) upstream from Dodge Bridge, 0.7 mi (1.1 km) downstream from Reese Creek, 4.3 mi (6.9 km) northwest of Eagle Point, and at mile 138.61 (223.02 km).

DRAINAGE AREA.--1,215 mi^2 (3,147 km^2).

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,272.39 ft (387.824 m) above mean sea level. Prior to Dec. 21, 1938, nonrecording gage, Dec. 21, 1938, to Aug. 15, 1968, water-stage recorder, at datum 1.27 ft (0.387 m) higher.

AVERAGE DISCHARGE.--36 years, 2,664 ft^3/s (75.4 m^3/s), 1,930,000 acre-ft/yr (2.38 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 44,400 ft^3/s (1,260 m^3/s) Jan. 16, gage height, 11.67 ft (3.557 m); minimum, 968 ft^3/s (27.4 m^3/s) Oct. 19.

Period of record: Maximum discharge, 87,600 ft^3/s (2,480 m^3/s) Dec. 22, 1964, gage height, 12.78 ft (3.895 m), datum then in use, from rating curve extended above 23,000 ft^3/s (651 m^3/s); minimum, 611 ft^3/s (17.3 m^3/s) Aug. 6, 14, 29, Sept. 9, 1940.

REMARKS.--Records good. Some diurnal fluctuation caused by powerplant 30 mi (48 km) upstream. Diversions for irrigation above station; most of flow of Big Butte Creek is diverted near Butte Falls. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1094: 1942(M), 1943, 1945(M), 1946. WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	1,700	8,800	5,340	5,540	6,290	16,000	4,260	3,920	2,790	1,720	1,480
2	1,090	1,560	6,110	4,500	4,660	5,990	11,400	4,240	4,280	2,650	1,700	1,480
3	1,080	1,360	4,850	4,120	4,070	4,740	8,390	4,070	4,440	2,540	1,700	1,460
4	1,080	1,310	4,200	3,660	4,050	4,240	6,730	4,050	4,420	2,470	1,680	1,460
5	1,080	4,880	3,760	3,380	3,790	4,220	6,040	4,280	5,750	2,430	1,680	1,460
6	1,090	13,900	3,610	3,050	3,450	5,380	5,820	4,850	5,560	2,370	1,660	1,460
7	1,130	5,380	6,780	2,920	3,280	4,620	5,240	5,310	4,850	2,330	1,660	1,460
8	1,100	11,800	7,340	2,760	3,150	3,950	4,910	5,450	4,340	2,310	1,640	1,460
9	1,090	7,420	5,490	2,680	3,060	3,660	4,910	5,450	4,160	2,410	1,640	1,440
10	1,080	6,420	4,680	2,510	2,960	3,540	4,580	4,780	4,200	2,270	1,620	1,460
11	1,090	8,360	4,480	2,420	2,920	3,610	4,380	4,420	4,440	2,220	1,600	1,450
12	1,080	11,300	4,520	2,760	2,850	4,460	4,520	4,340	4,640	2,150	1,600	1,430
13	1,080	8,140	6,350	8,780	2,840	4,540	4,260	4,030	4,740	2,100	1,580	1,430
14	1,060	7,390	5,650	11,900	2,820	6,390	4,070	3,710	4,740	2,070	1,580	1,430
15	1,060	6,900	5,010	32,500	2,760	11,300	3,990	3,630	4,660	2,050	1,580	1,430
16	1,050	6,710	4,900	37,800	3,350	9,530	3,860	3,470	4,360	2,010	1,560	1,420
17	1,060	5,900	7,310	22,800	3,220	8,740	3,820	3,330	4,360	1,990	1,560	1,420
18	1,050	4,620	6,690	17,600	4,870	8,070	3,990	3,170	4,380	1,980	1,560	1,410
19	1,000	3,720	5,340	16,000	8,590	6,860	4,030	3,040	4,320	1,970	1,550	1,400
20	1,030	3,510	5,180	10,600	5,920	6,090	3,820	2,880	3,860	1,940	1,550	1,400
21	1,170	3,660	6,350	7,990	5,400	5,450	3,710	2,820	3,610	1,910	1,550	1,400
22	2,010	3,430	5,560	6,600	4,960	5,040	3,840	2,800	3,520	1,880	1,550	1,400
23	1,880	3,450	4,940	5,730	4,200	4,720	4,120	2,930	3,470	1,860	1,550	1,400
24	1,890	4,060	4,440	5,110	3,900	4,460	4,160	2,980	3,350	1,830	1,550	1,390
25	1,590	4,340	5,580	4,830	3,810	4,420	3,970	3,300	3,220	1,820	1,530	1,390
26	1,350	4,140	5,180	4,600	3,990	4,520	3,630	3,920	3,020	1,810	1,520	1,380
27	1,230	4,000	5,490	4,240	3,920	4,640	3,420	4,420	2,880	1,800	1,500	1,390
28	1,220	4,560	7,490	4,050	4,930	7,550	3,280	4,500	2,800	1,800	1,490	1,390
29	1,420	6,760	10,300	3,810	------	10,300	3,420	4,180	2,760	1,770	1,490	1,380
30	1,300	10,900	8,040	3,610	------	15,700	3,710	3,950	2,790	1,750	1,480	1,380
31	1,200	------	6,380	4,030	------	10,600	------	3,790	------	1,750	1,480	------
TOTAL	37,700	171,580	180,800	252,680	113,260	193,620	152,020	122,350	121,840	65,030	49,110	42,740
MEAN	1,216	5,719	5,832	8,151	4,045	6,246	5,067	3,947	4,061	2,098	1,584	1,425
MAX	2,010	13,900	10,300	37,800	8,590	15,700	16,000	5,450	5,750	2,790	1,720	1,480
MIN	1,000	1,310	3,610	2,420	2,760	3,540	3,280	2,800	2,760	1,750	1,480	1,380
AC-FT	74,780	340,300	358,600	501,200	224,700	384,000	301,500	242,700	241,700	129,000	97,410	84,770

CAL YR 1973 TOTAL 898,356 MEAN 2,461 MAX 13,900 MIN 908 AC-FT 1,782,000
WTR YR 1974 TOTAL 1,502,730 MEAN 4,117 MAX 37,800 MIN 1,000 AC-FT 2,981,000

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1100	8.04	20,000	1-18	2030	7.63	20,200
11- 8	1200	7.23	16,100	2-19	0400	4.99	9,970
11-12	1130	6.46	12,900	3-15	0600	5.63	12,100
11-30	1230	6.49	13,100	3-30	0300	7.25	18,500
12-29	0400	6.03	11,400	4- 1	1030	7.65	20,300
1-16	0130	11.67	44,400				

14341500 SOUTH FORK LITTLE BUTTE CREEK NEAR LAKECREEK, OREG.

LOCATION.--Lat 42°24'30", long 122°36'00", in SE¼ sec.29, T.36 S., R.2 E., Jackson County, on left bank 0.5 mi (0.8 km) upstream from intake of Rogue River Valley Canal, 1.4 mi (2.3 km) southeast of Lakecreek, and at mile 18.1 (29.1 km).

DRAINAGE AREA.--138 mi^2 (357 km^2).

PERIOD OF RECORD.--April 1921 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,725 ft (526 m), by barometer. Supplementary nonrecording gage at site 25 ft (8 m) upstream used Jan. 12 to Sept. 6, 1965. Apr. 15 to June 17, 1921, nonrecording gage, and June 18, 1921, to Sept. 6, 1965, water-stage recorder at site 75 ft (23 m) upstream at datum 5.0 ft (1.52 m) lower.

AVERAGE DISCHARGE.--53 years, 106 ft^3/s (3.00 m^3/s), 76,800 acre-ft/yr (94.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,100 ft^3/s (59.5 m^3/s), estimated, Jan. 16; minimum, 11 ft^3/s (0.31 m^3/s) Oct. 10-16, 18, 19.

Period of record: Maximum discharge, 7,660 ft^3/s (217 m^3/s) Dec. 2, 1962, gage height, 8.35 ft (2.54 m), site and datum then in use; minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 10, 1931.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation. Diversions for irrigation above station; also, in December 1958 Dead Indian collection canal began diverting above station from Conde Creek and Dead Indian Creek and in December 1959 South Fork Little Butte collection canal began diverting above station from South Fork Little Butte Creek, Daley Creek, and Beaver Dam Creek. These are transbasin diversions to Howard Prairie Reservoir in Klamath River basin, but eventually this water is diverted back to Rogue River basin for irrigation of lands in the Ashland-Medford area and power development enroute.

REVISIONS (WATER YEARS).--WSP 934: 1925(M). WSP 1398: 1922, 1927(M), 1937, 1941-42.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	370	200	220	320	1,160	440	140	39	29	25
2	16	18	256	162	190	240	1,120	410	135	39	28	25
3	13	17	193	145	180	230	644	370	125	38	28	24
4	13	16	162	130	195	225	434	360	103	37	28	23
5	12	53	145	120	180	230	404	350	118	44	29	23
6	13	185	145	110	165	340	386	350	115	46	29	23
7	13	105	228	100	150	260	375	360	103	46	28	23
8	12	228	248	92	140	225	370	380	95	46	27	23
9	12	110	196	84	135	210	365	375	86	47	27	24
10	11	71	162	80	130	200	360	365	80	46	27	25
11	11	115	162	76	120	205	360	350	77	46	26	22
12	11	216	150	80	120	210	370	325	73	44	26	21
13	11	165	196	89	115	220	360	310	70	41	26	21
14	11	145	172	108	115	230	350	290	67	38	26	20
15	11	113	155	170	120	260	350	285	64	38	26	20
16	11	130	150	2,080	140	310	350	276	62	38	24	21
17	12	150	208	1,650	130	420	340	260	64	38	24	21
18	11	145	196	1,400	150	360	360	244	59	37	25	21
19	11	115	162	860	250	280	380	236	56	37	25	20
20	12	118	158	620	200	250	370	224	59	36	27	20
21	16	130	162	410	170	240	370	208	53	34	26	19
22	43	115	145	340	160	240	380	196	50	34	27	20
23	33	120	135	290	155	295	447	193	49	33	26	19
24	28	162	125	240	155	290	468	190	47	32	25	19
25	22	268	236	220	160	315	475	186	46	32	24	19
26	19	196	200	195	170	340	454	182	46	32	23	19
27	16	152	204	190	165	370	422	182	44	32	22	19
28	18	172	280	180	190	422	410	176	41	32	22	19
29	24	228	422	180	------	516	428	160	40	31	23	19
30	19	428	310	185	------	1,190	461	152	39	30	23	19
31	18	------	256	190	------	626	------	148	------	29	24	------
TOTAL	501	4,205	6,289	10,976	4,470	10,069	13,523	8,533	2,206	1,172	800	636
MEAN	16.2	140	203	354	160	325	451	275	73.5	37.8	25.8	21.2
MAX	43	428	422	2,080	250	1,190	1,160	440	140	47	29	25
MIN	11	16	125	76	115	200	340	148	39	29	22	19
AC-FT	994	8,340	12,470	21,770	8,870	19,970	26,820	16,930	4,380	2,320	1,590	1,260

CAL YR 1973 TOTAL 25,966 MEAN 71.1 MAX 428 MIN 11 AC-FT 51,500
WTR YR 1974 TOTAL 63,380 MEAN 174 MAX 2,080 MIN 11 AC-FT 125,700

NOTE.--No gage-height record Jan. 4 to Mar. 22.

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-30	1030	6.84	558	3-30	0100	7.07	1,440
1-16	unknown	unknown	2,100	4- 1	1030	7.18	1,620

14342500 NORTH FORK LITTLE BUTTE CREEK AT FISH LAKE, NEAR LAKECREEK, OREG.

LOCATION.--Lat 42°22'35", long 122°21'20", in SE¼SW¼ sec.4, T.37 S., R.4 E., Jackson County, on right bank 0.5 mi (0.8 km) downstream from Fish Lake dam, 14 mi (23 km) east of Lakecreek, and at mile 15.2 (24.5 km).

DRAINAGE AREA.--20.8 mi² (53.9 km²).

PERIOD OF RECORD.--October 1914 to July 1915, June 1916 to current year. Monthly discharge only November 1916 to May 1917, published in WSP 1318.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,571.41 ft (1,393.366 m) above mean sea level. Oct. 1, 1914, to July 31, 1915, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. June 1, 1916, to July 9, 1918, nonrecording gage and July 10, 1918, to Oct. 28, 1932, water-stage recorder at site 0.25 mi (0.40 km) upstream at different datums.

AVERAGE DISCHARGE.--58 years (1916-74), 36.4 ft³/s (1.03 m³/s), 26,370 acre-ft/yr (32.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 81 ft³/s (2.29 m³/s) July 31, Aug. 1, gage height, 1.54 ft (0.469 m); minimum, 3.2 ft³/s (0.091 m³/s) Oct. 8.

Period of record: Maximum discharge, about 940 ft³/s (26.6 m³/s) June 5, 1917, computed from rate of change in contents of reservoir after break in dam occurred; no flow at times.

REMARKS.--Records good. Since 1915, Fish Lake (see below) has stored water for irrigation by Medford Irrigation District. Cascade Canal diverts from Fourmile Lake in Klamath River basin and discharges into lava bed 1.0 mi (1.6 km) above Fish Lake; diversion began August 1923. No diversion from creek above station.

REVISIONS (WATER YEARS).--WSP 654: Drainage area (former site). WSP 1218: 1917(M). WSP 1738: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	8.4	14	17	23	24	33	43	50	54	81	67
2	8.0	8.4	14	18	23	24	33	43	50	54	79	65
3	8.0	8.4	14	18	23	24	33	45	46	53	79	63
4	8.4	8.4	14	19	23	24	33	45	46	53	79	61
5	8.4	8.8	14	19	23	24	34	46	48	56	79	61
6	6.8	9.2	14	19	23	24	34	48	46	60	79	61
7	3.8	9.2	14	19	23	24	33	50	46	60	79	61
8	3.4	9.6	14	19	23	24	33	51	45	60	78	63
9	3.5	9.6	14	19	23	24	33	51	45	61	78	63
10	3.8	9.6	15	19	23	24	33	51	45	61	78	63
11	4.0	11	15	19	23	24	33	53	45	61	78	63
12	4.3	11	15	19	23	24	33	53	45	61	78	63
13	4.5	11	15	19	24	24	33	53	45	60	78	63
14	4.8	11	15	19	24	24	33	53	45	60	76	61
15	5.0	11	15	20	24	24	34	54	45	60	76	54
16	5.3	12	15	20	24	24	35	54	45	60	76	54
17	5.5	12	15	20	24	25	35	54	45	60	74	54
18	5.5	12	16	21	24	25	36	54	45	60	74	54
19	5.8	12	16	21	24	25	35	54	48	60	65	54
20	6.0	12	16	21	24	25	35	53	53	60	63	56
21	6.8	12	16	21	24	26	36	53	54	60	61	56
22	7.6	12	16	21	24	26	38	53	53	58	61	56
23	7.6	13	16	21	24	26	38	52	53	58	61	56
24	7.6	13	16	21	24	27	38	51	54	58	63	54
25	7.2	13	16	23	24	27	38	51	54	63	67	54
26	7.2	13	16	23	24	28	38	51	53	69	67	54
27	7.2	13	17	23	24	28	38	51	60	69	65	53
28	8.4	13	17	23	24	29	39	50	60	67	65	53
29	8.0	13	17	23	------	30	39	50	56	67	65	53
30	8.0	13	17	23	------	32	40	50	54	67	65	50
31	8.4	------	17	23	------	32	------	50	------	76	65	------
TOTAL	196.8	332.6	475	630	660	795	1.056	1.570	1.479	1.886	2.232	1.743
MEAN	6.35	11.1	15.3	20.3	23.6	25.6	35.2	50.6	49.3	60.8	72.0	58.1
MAX	8.4	13	17	23	24	32	40	54	60	76	81	67
MIN	3.4	8.4	14	17	23	24	33	43	45	53	61	50
AC-FT	390	660	942	1.250	1.310	1.580	2.090	3.110	2.930	3.740	4.430	3.460
(†)	a2,970	3,840	a4,250	a4,770	5,080	a5,330	a6,040	7,200	8,020	7,530	6,920	6,770

CAL YR 1973 TOTAL 14.763.4 MEAN 40.4 MAX 106 MIN 3.4 AC-FT 29.280
WTR YR 1974 TOTAL 13.055.4 MEAN 35.8 MAX 81 MIN 3.4 AC-FT 25.900

† Monthend contents, in acre-feet, of Fish Lake.
a Interpolated.

14343000 NORTH FORK LITTLE BUTTE CREEK NEAR LAKECREEK, OREG.

LOCATION.--Lat 42°24'10", long 122°32'10", in NW¼ sec.36, T.36 S., R.2 E., Jackson County, on right bank 1.2 mi (1.9 km) upstream from Wasson Canyon, 4.9 mi (7.9 km) east of Lakecreeek, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--43.8 mi^2 (113.4 km^2).

PERIOD OF RECORD.--September 1911 to March 1913, July to September 1917, May 1922 to December 1964, September 1965 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "above Medford intake, near Lakecreek" 1922-28, 1931-40. Records for April to September 1916, May 1917 to September 1919, April to September 1921, and October 1923 to September 1924 at site 3 mi (5 km) upstream not equivalent owing to diversions and difference in drainage areas.

GAGE.--Water-stage recorder. Concrete control since Oct. 9, 1968. Altitude of gage is 2,160 ft (658 m), from topographic map. Sept. 10, 1911, to Mar. 31, 1913, and July 1 to Sept. 30, 1917, nonrecording gage at site 1,000 ft (305 m) downstream at different datums. May 26, 1922, to Dec. 31, 1964, water-stage recorder at site 1,000 ft (305 m) downstream at datum 2,125.01 ft (664.703 m) above mean sea level.

AVERAGE DISCHARGE.--52 years (1911-12, 1922-64, 1965-74), 72.3 ft^3/s (2.05 m^3/s), 52,380 acre-ft/yr (64.6 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 315 ft^3/s (8.92 m^3/s) Apr. 1, gage height, 3.93 ft (1.198 m); minimum, 20 ft^3/s (0.57 m^3/s) Oct. 9-19.

Period of record: Maximum discharge, 1,750 ft^3/s (49.6 m^3/s) Dec. 22, 1964, gage height, 3.70 ft (1.128 m), site and datum then in use; minimum, 11 ft^3/s (0.31 m^3/s) Oct. 29 to Nov. 8, 1931.

REMARKS.--Records good. Flow partly regulated since 1915 by Fish Lake (published with station 14342500). Diversions for irrigation above station; some water diverted into Fish Lake from Fourmile Lake, in Klamath River basin, since 1923.

REVISIONS (WATER YEARS).--WSP 1518: 1912-13. WSP 1738: Drainage area (former site).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	34	89	71	70	92	203	99	83	80	103	84
2	26	31	70	64	65	83	148	99	81	80	104	86
3	26	30	63	61	61	74	130	97	80	78	104	84
4	26	30	58	58	65	71	117	97	78	81	103	86
5	26	40	55	56	63	71	117	99	81	83	103	86
6	27	78	56	55	60	103	113	101	78	88	103	86
7	26	49	77	51	59	83	103	101	78	88	101	86
8	25	75	72	51	58	78	103	101	77	88	101	84
9	24	43	65	50	58	78	103	103	77	88	101	86
10	24	37	63	49	58	83	97	101	75	86	99	88
11	24	40	64	48	56	84	97	101	74	84	99	86
12	24	49	61	49	56	89	96	101	74	86	99	86
13	24	47	71	50	56	88	91	99	74	86	99	84
14	24	44	65	55	58	106	89	97	72	86	99	83
15	24	40	63	83	56	113	89	99	72	86	99	77
16	24	51	63	97	65	115	86	99	72	84	99	77
17	24	48	71	86	60	115	86	101	72	84	99	77
18	24	49	68	108	101	109	92	103	71	86	97	77
19	24	43	61	103	109	101	89	101	74	86	91	78
20	25	51	61	91	86	94	88	99	80	84	86	78
21	30	51	60	80	80	86	86	97	80	83	84	78
22	40	48	58	74	75	83	89	96	78	83	84	78
23	31	55	56	71	71	80	101	94	77	83	84	78
24	31	61	58	68	70	78	109	91	80	83	84	77
25	28	80	74	68	68	78	109	91	80	84	86	78
26	28	64	64	65	71	78	101	89	78	91	88	78
27	28	59	71	64	66	77	96	89	81	92	88	77
28	32	64	94	64	74	81	94	89	86	92	89	77
29	30	72	111	61	------	89	94	86	83	92	89	77
30	28	96	88	60	------	124	97	86	81	92	91	75
31	30	------	78	63	------	104	------	84	------	99	88	------
TOTAL	833	1,559	2,128	2,074	1,897	2,788	3,113	2,990	2,327	2,666	2,944	2,432
MEAN	26.9	52.0	68.6	66.9	67.8	89.9	104	96.5	77.6	86.0	95.0	81.1
MAX	40	96	111	108	109	124	203	103	86	99	104	88
MIN	24	30	55	48	56	71	86	84	71	78	84	75
AC-FT	1,650	3,090	4,220	4,110	3,760	5,530	6,170	5,930	4,620	5,290	5,840	4,820

CAL YR 1973 TOTAL 25,360 MEAN 69.5 MAX 124 MIN 24 AC-FT 50,300
WTR YR 1974 TOTAL 27,751 MEAN 76.0 MAX 203 MIN 24 AC-FT 55,040

14350000 EMIGRANT CREEK NEAR ASHLAND, OREG.

LOCATION.--Lat 43°09'50", long 122°36'15", in SE¼NE¼ sec.20, T.39 S., R.2 E., Jackson County, on left bank 0.1 mi (0.2 km) downstream from Emigrant Dam, 6 mi (10 km) southeast of Ashland, and at mile 29.2 (47.0 km).

DRAINAGE AREA.--64.3 mi² (166.5 km²).

PERIOD OF RECORD.--January to June 1920, October 1920 to July 1922, February 1923 to May 1924 (incomplete), October 1924 to November 1925, February to August 1926, October 1926 to September 1928, April 1929 to September 1930, April 1931 to October 1932 (incomplete), April 1933 to September 1935, April 1936 to September 1939 (incomplete), April 1940 to September 1947, January 1948 to October 1952 (incomplete), December 1952 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder and artificial control. Datum of gage is 2,042.80 ft (622.645 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1926, water-stage recorder or nonrecording gage at several nearby sites at various datums. Oct. 1, 1926, to Feb. 24, 1959, water-stage recorder near present site at datum 10.93 ft (3.331 m) higher. Feb. 25, 1959, to May 7, 1961, water-stage recorder at site 1.0 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years (1924-25, 1926-28, 1929-30, 1933-35, 1940-47, 1953-74), 32.4 ft³/s (0.92 m³/s), 23,470 acre-ft/yr (28.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 812 ft³/s (23.0 m³/s) Mar. 30, gage height, 6.05 ft (1.844 m); no flow at times.
Period of record: Maximum discharge, 5,260 ft³/s (149 m³/s) Feb. 20, 1927, by computation of peak flow over dam; no flow at times.

REMARKS.--Records fair. Flow regulated since 1924 by Emigrant Lake (see below). Several diversions above station for irrigation; the principal diversion canals are Ashland lateral and East lateral (see below). From June 1923 to August 1960, water diverted by Keene Creek Canal from Klamath River basin into Emigrant Creek above station. Beginning May 1960, water from Klamath River basin diverted to Emigrant Creek above station via Green Springs powerplant diversion.

REVISIONS (WATER YEARS).--WSP 1448: 1921, 1927-28, 1937, 1953(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.10	.10	206	.20	271	772	92	30	16	53	47
2	.10	.10	.20	206	.20	273	688	92	25	18	58	46
3	.10	.10	.10	151	.20	271	531	82	26	18	63	49
4	.10	.10	.10	92	.20	271	463	28	26	18	62	53
5	.10	.10	0	71	.20	271	203	84	25	18	62	52
6	.10	.20	.10	72	.20	270	.70	84	24	18	64	52
7	.10	.20	.10	72	.20	212	113	82	23	18	67	52
8	.10	.20	.10	18	.20	102	180	71	22	20	67	52
9	.10	.20	0	.20	.20	.50	106	54	22	24	67	52
10	.10	.20	.10	.20	.20	.50	44	51	21	20	68	51
11	.10	.20	93	.20	.20	.50	.20	51	21	14	69	47
12	.10	.20	172	.20	118	.70	61	49	18	14	69	45
13	.10	.20	172	.20	267	.70	127	49	14	14	64	45
14	.10	.20	172	.20	265	.70	127	49	14	14	62	44
15	.10	.20	172	.20	209	.50	127	21	14	24	62	44
16	.10	.20	172	146	139	.50	74	26	14	40	62	44
17	.10	.20	172	702	139	.50	157	37	15	40	58	44
18	.10	.20	172	721	78	.50	198	37	13	40	54	43
19	.10	.20	172	697	.20	.50	127	36	9.3	40	54	43
20	.10	.20	190	687	.20	.50	127	37	10	40	51	43
21	.10	.20	209	678	.20	.70	127	37	10	40	42	45
22	.10	.10	209	670	.20	.70	118	37	11	40	42	48
23	.10	.10	209	666	.20	.70	77	36	11	40	42	48
24	.10	.10	209	657	.20	.70	185	42	11	40	42	47
25	.10	.10	209	649	271	.70	185	46	11	40	41	47
26	.10	.10	209	402	271	475	157	45	12	41	44	47
27	.10	.10	209	.20	271	382	109	41	12	45	47	46
28	.10	.10	207	.20	271	127	109	37	13	46	47	46
29	.10	.10	207	.20	------	404	109	37	13	44	47	45
30	.10	0	207	.20	------	798	105	37	13	47	47	44
31	.10	------	207	.20	------	766	------	37	------	53	47	------
TOTAL	3.10	4.50	3.950.90	7.565.40	2.302.40	4.903.10	5.508.90	1.544	503.3	944	1.724	1.411
MEAN	.10	.15	127	244	82.2	158	184	49.8	16.8	30.5	55.6	47.0
MAX	.10	.20	209	721	271	798	772	92	30	53	69	53
MIN	.10	0	0	.20	.20	.50	.20	21	9.3	14	41	43
AC-FT	6.1	8.9	7.840	15.010	4.570	9.730	10.930	3.060	998	1.870	3.420	2.800
(†)	a6,280	18,320	20,770	a29,260	32,020	a39,030	a38,520	a36,500	a30,040	22,100	12,720	4,560
(‡)	21	0	0	0	0	32	3,010	6,640	8,310	8,550	8,370	7,180

CAL YR 1973 TOTAL 8.104.60 MEAN 22.2 MAX 209 MIN 0 AC-FT 16.080
WTR YR 1974 TOTAL 30.364.60 MEAN 83.2 MAX 798 MIN 0 AC-FT 60.230

† Monthend contents, in acre-feet, of Emigrant Lake.
‡ Diversion, in acre-feet, by East Lateral.
a Interpolated.

14357500 BEAR CREEK AT MEDFORD, OREG.

LOCATION.--Lat 42°19'40", long 122°52'10", in NW¼ sec.30, T.37 S., R.1 W., Jackson County, on left bank 40 ft (12 m) upstream from Main Street Bridge in Medford and at mile 9.91 (15.95 km).

DRAINAGE AREA.--289 mi^2 (749 km^2).

PERIOD OF RECORD.--March 1915 to June 1920 (no low-flow records), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1318.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,343.98 ft (409.645 m) above mean sea level. See WSP 1738 for history of changes prior to Dec. 31, 1947.

AVERAGE DISCHARGE.--54 years (1920-74), 116 ft^3/s (3.29 m^3/s), 84,040 acre-ft/yr (104 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 7,340 ft^3/s (208 m^3/s) Jan. 16, gage height, 6.43 ft (1.960 m); minimum, 15 ft^3/s (0.42 m^3/s) Oct. 15, 16, 18.

Period of record: Maximum discharge, 14,500 ft^3/s (411 m^3/s) Dec. 2, 1962, gage height, 8.04 ft (2.451 m); maximum gage height, about 11.0 ft (3.35 m) Feb. 20, 1927, from floodmarks, present datum, site then in use; no flow at times.

REMARKS.--Records good. Flow partly regulated since 1924 by Emigrant Lake (published with station 14350000). Numerous diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1044: 1944. WSP 1448: 1916, 1917(M), 1918-20, 1922, 1924, 1927(M), 1928, 1930. WSP 1568: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	52	432	300	260	1,200	2,600	376	149	79	34	36
2	25	50	272	260	240	952	1,720	362	137	91	36	43
3	25	45	219	230	220	737	1,410	358	152	61	42	40
4	25	43	199	210	230	648	1,260	275	152	47	40	45
5	24	433	190	190	230	642	976	327	176	50	39	45
6	22	506	200	180	210	928	516	327	179	43	36	45
7	28	216	270	170	190	695	582	319	182	47	36	54
8	24	448	330	160	180	498	654	315	161	77	36	55
9	24	196	280	150	179	340	636	295	146	86	36	61
10	22	175	230	150	176	323	540	259	143	84	36	59
11	21	365	210	170	173	340	435	263	143	71	34	57
12	20	470	200	280	196	445	455	255	152	73	34	63
13	17	292	270	740	445	405	540	252	146	55	34	65
14	16	233	240	2,300	455	455	516	241	158	63	31	71
15	16	169	210	4,500	415	470	504	252	158	59	43	69
16	16	196	200	5,890	353	492	425	234	164	50	50	63
17	17	205	280	3,140	331	475	480	291	170	45	63	61
18	16	230	270	2,100	430	430	528	271	164	45	69	55
19	16	163	230	1,300	390	390	486	263	167	55	79	57
20	20	175	220	1,050	255	353	480	234	170	45	69	59
21	65	178	230	780	331	323	486	199	155	45	54	52
22	187	172	190	600	271	307	486	179	128	39	49	50
23	104	172	180	450	224	287	420	176	118	37	49	52
24	71	252	170	350	213	275	582	167	113	34	49	47
25	52	264	310	320	299	283	558	167	103	33	37	43
26	43	226	280	310	546	604	516	170	105	33	37	50
27	37	187	290	270	516	800	480	179	103	37	34	63
28	50	230	400	240	824	594	455	164	71	43	31	79
29	50	308	600	230	------	969	440	173	69	37	30	84
30	39	729	460	240	------	3,080	420	173	73	36	34	86
31	54	------	360	250	------	1,790	------	158	------	34	34	------
TOTAL	1,171	7,360	8,422	27,510	8,782	20,530	20,586	7,674	4,207	1,634	1,315	1,709
MEAN	37.8	246	272	887	314	662	686	248	140	52.7	42.4	57.0
MAX	187	729	600	5,890	824	3,080	2,600	376	182	91	79	86
MIN	16	43	170	150	173	275	420	158	69	33	30	36
AC-FT	2,320	14,640	16,710	54,570	17,420	40,720	40,830	15,220	8,340	3,240	2,610	3,390

CAL YR 1973 TOTAL 31,654 MEAN 86.7 MAX 729 MIN 16 AC-FT 62,790
WTR YR 1974 TOTAL 110,920 MEAN 304 MAX 5,890 MIN 16 AC-FT 220,000

NOTE.--No gage-height record Dec. 5 to Jan. 15.

14359000 ROGUE RIVER AT RAYGOLD, NEAR CENTRAL POINT, OREG.

LOCATION.--Lat 42°26'15", long 122°59'10", in SW¼ sec.18, T.36 S., R.2 W., Jackson County, on right bank at Raygold, 0.1 mi (0.2 km) downstream from Gold Ray Dam, 1.0 mi (1.6 km) downstream from Bear Creek, 5.6 mi (9.0 km) northwest of Central Point, and at mile 125.8 (202.4 km).

DRAINAGE AREA.--2,053 mi^2 (5,317 km^2).

PERIOD OF RECORD.--August 1905 to current year. Prior to October 1921, published as "near Tolo."

GAGE.--Water-stage recorder. Datum of gage is 1,121.78 ft (341.919 m) above mean sea level. Prior to Sept. 19, 1914, nonrecording gage and Sept. 19, 1914, to Sept. 30, 1956, water-stage recorder, at site 300 ft (91 m) upstream at same datum.

AVERAGE DISCHARGE.--69 years, 2,986 ft^3/s (84.6 m^3/s), 2,163,000 acre-ft/yr (2.67 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 63,600 ft^3/s (1,800 m^3/s) Jan. 16, gage height, 15.95 ft (4.862 m); minimum 1,030 ft^3/s (29.2 m^3/s) Oct. 19; minimum daily, 1,080 ft^3/s (30.6 m^3/s) Oct. 19.

Period of record: Maximum discharge, 131,000 ft^3/s (3,710 m^3/s) Dec. 23, 1964, gage height, 23.43 ft (7.141 m), from rating curve extended above 63,000 ft^3/s (1,780 m^3/s) on basis of slope-area measurement of 113,000 ft^3/s (3,200 m^3/s); minimum not determined; minimum daily, 616 ft^3/s (17.4 m^3/s) Sept. 6, 1931.

Flood in December 1861 reached a stage of about 32 ft (10 m), discharge not determined, and flood in February 1890 reached a stage of about 27.5 ft (8.38 m), discharge not determined, from information by Corps of Engineers.

REMARKS.--Records excellent. Minor fluctuations caused by fishway operations at Gold Ray dam 0.1 mi (0.2 km) above station. Slight regulation by Fish Lake (published with station 14342500) and Emigrant Lake (published with station 14350000). Many diversions for irrigation above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1248: 1906, 1914(M), 1915. WSP 1398: 1910(M), 1927(M). WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,150	1,770	11,500	6,930	6,710	10,700	23,700	5,430	4,390	2,950	1,700	1,490
2	1,150	1,830	7,870	5,890	5,890	9,550	16,700	5,520	4,720	2,840	1,680	1,520
3	1,140	1,590	6,180	5,360	5,120	7,150	11,600	5,320	4,950	2,660	1,690	1,490
4	1,140	1,500	5,340	4,720	5,080	6,120	9,500	5,190	4,890	2,570	1,690	1,490
5	1,140	4,790	4,720	4,270	4,910	5,950	8,420	5,360	6,020	2,540	1,690	1,510
6	1,140	18,300	4,450	3,800	4,350	8,230	7,740	5,890	6,250	2,470	1,680	1,490
7	1,180	7,810	7,660	3,580	4,110	7,150	6,980	6,210	5,500	2,460	1,680	1,490
8	1,180	14,000	9,050	3,400	3,920	5,680	6,660	6,400	4,930	2,480	1,670	1,500
9	1,150	9,390	6,760	3,210	3,790	5,100	6,690	6,400	4,700	2,590	1,660	1,520
10	1,140	7,400	5,770	2,980	3,650	4,850	6,180	5,840	4,700	2,410	1,650	1,510
11	1,140	9,190	5,450	2,860	3,560	4,850	5,720	5,430	4,870	2,320	1,640	1,530
12	1,140	13,800	5,630	3,260	3,490	5,910	5,930	5,230	5,100	2,240	1,640	1,510
13	1,140	10,000	9,640	10,400	3,690	6,180	5,720	4,970	5,210	2,210	1,610	1,500
14	1,130	9,020	8,000	13,900	3,750	7,380	5,470	4,580	5,230	2,180	1,640	1,500
15	1,120	8,230	6,590	35,800	3,670	11,900	5,360	4,490	5,140	2,150	1,610	1,490
16	1,100	7,530	6,250	57,900	4,350	10,500	5,140	4,270	4,870	2,080	1,610	1,470
17	1,110	7,230	8,910	34,000	4,250	9,720	5,060	4,250	4,890	2,040	1,630	1,480
18	1,120	5,980	8,580	23,500	6,490	9,190	5,280	4,050	4,850	2,030	1,610	1,470
19	1,080	4,760	6,830	22,200	11,100	7,970	5,360	3,880	4,790	2,040	1,640	1,470
20	1,110	4,390	6,450	14,000	7,610	7,200	5,140	3,640	4,390	2,010	1,640	1,470
21	1,330	4,830	7,760	10,600	7,100	6,590	5,020	3,460	4,030	1,970	1,660	1,440
22	2,630	4,470	6,980	8,940	7,080	6,140	5,060	3,380	3,880	1,950	1,550	1,460
23	2,410	4,270	6,250	7,890	5,680	5,790	5,390	3,460	3,800	1,900	1,570	1,480
24	2,190	5,860	5,660	7,080	5,140	5,500	5,750	3,510	3,670	1,880	1,570	1,410
25	1,900	6,180	6,850	6,780	5,000	5,430	5,660	3,770	3,490	1,860	1,550	1,430
26	1,600	6,050	6,590	6,540	5,410	5,720	5,170	4,410	3,300	1,820	1,520	1,440
27	1,440	5,230	6,690	5,520	5,470	6,210	4,850	5,020	3,100	1,810	1,480	1,460
28	1,410	5,630	8,970	5,250	7,430	8,690	4,600	5,140	2,980	1,830	1,490	1,510
29	1,650	7,530	14,000	4,910	-------	11,000	4,660	4,850	2,900	1,810	1,480	1,500
30	1,530	14,000	10,300	4,640	-------	24,500	4,930	4,580	2,940	1,750	1,490	1,500
31	1,410	-------	8,130	4,930	-------	14,600	-------	4,330	-------	1,720	1,500	-------
TOTAL	42,200	212,560	229,810	335,040	147,800	251,450	209,440	148,260	134,480	67,570	49,920	44,530
MEAN	1,361	7,085	7,413	10,810	5,279	8,111	6,981	4,783	4,483	2,180	1,610	1,484
MAX	2,630	18,300	14,000	57,900	11,100	24,500	23,700	6,400	6,250	2,950	1,700	1,530
MIN	1,080	1,500	4,450	2,860	3,490	4,850	4,600	3,380	2,900	1,720	1,480	1,410
AC-FT	83,700	421,600	455,800	664,600	293,200	498,800	415,400	294,100	266,700	134,000	99,020	88,330

CAL YR 1973 TOTAL 1,050,960 MEAN 2,879 MAX 18,300 MIN 1,010 AC-FT 2,085,000
WTR YR 1974 TOTAL 1,873,060 MEAN 5,132 MAX 57,900 MIN 1,080 AC-FT 3,715,000

PEAK DISCHARGE (BASE, 11,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1530	9.43	23,700	1-19	0100	10.44	28,400
11- 8	1500	8.52	19,800	2-19	0700	6.63	13,000
11-12	1330	7.35	15,400	3- 1	1800	6.89	13,900
11-30	1530	8.11	18,100	3-15	0700	6.50	12,600
12- 7	1800	5.98	11,000	3-30	-	10.63	29,400
12-29	0700	7.81	17,000	4- 1	1430	11.81	35,800
1-16	0130	15.95	63,600				

14361500 ROGUE RIVER AT GRANTS PASS, OREG.

LOCATION.--Lat 42°25'50", long 123°19'00", in NW¼ sec.20, T.36 S., R.5 W., Josephine County, on right bank at city of Grants Pass filter plant, 0.6 mi (1.0 km) upstream from bridge on State Highway 99 at Grants Pass, and at mile 101.8 (163.8 km).

DRAINAGE AREA.--2,459 mi² (6,369 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 885.28 ft (269.833 m) above mean sea level. Prior to Aug. 8, 1957, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--36 years, 3,564 ft³/s (101 m³/s), 2,582,000 acre-ft/yr (3.18 km³/yr).

EXTREMES.--Current year: Maximum discharge, 96,400 ft³/s (2,730 m³/s) Jan. 16, gage height, 25.88 ft (7.888 m); minimum 1,060 ft³/s (30.0 m³/s) Oct. 19, 20; minimum daily, 1,120 ft³/s (31.7 m³/s) Oct. 19, 20.

Period of record: Maximum discharge, 152,000 ft³/s (4,300 m³/s) Dec. 23, 1964, gage height, 34.15 ft (10.409 m), from rating curve extended above 93,000 ft³/s (2,630 m³/s); minimum, 195 ft³/s (5.52 m³/s) Jan. 30, 1961; minimum daily, 606 ft³/s (17.2 m³/s) Sept. 10, 1968.

Flood in December 1861 reached a stage of about 42 ft (13 m), present datum (information furnished by Corps of Engineers). Flood in February 1890 reached a stage of about 35 ft (11 m), present datum, and that of Feb. 21, 1927, about 31 ft (9 m), present datum, according to local resident.

REMARKS.--Records good. Large fluctuation at times caused by Savage Rapids Dam 5.5 mi (8.8 km) above station; slight regulation by Fish Lake and Emigrant Lake. Many diversions from Rogue River and tributaries above station, the largest of which is at Savage Rapids Dam of Grants Pass Irrigation District, 5 mi (8 km) above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	1,660	15,700	8,610	8,400	15,300	31,100	5,670	4,200	2,930	1,620	1,380
2	1,220	2,060	10,300	7,240	7,250	14,900	23,900	5,800	4,500	2,840	1,590	1,390
3	1,210	1,800	7,770	6,490	6,240	10,500	16,100	5,570	4,760	2,630	1,580	1,390
4	1,190	1,700	6,610	5,750	6,030	8,430	12,600	5,330	4,760	2,550	1,550	1,350
5	1,180	6,000	5,770	5,190	5,930	7,990	10,700	5,400	5,650	2,530	1,480	1,400
6	1,200	25,000	5,290	4,570	5,280	10,600	9,610	6,000	6,320	2,490	1,560	1,390
7	1,210	10,400	8,820	4,230	4,940	10,000	8,490	6,200	5,480	2,430	1,570	1,380
8	1,240	17,600	11,700	3,960	4,730	7,670	8,010	6,400	4,900	2,490	1,550	1,380
9	1,210	12,200	8,400	3,710	4,560	6,760	7,880	6,400	4,540	2,590	1,550	1,410
10	1,190	9,310	6,990	3,500	4,400	6,320	7,270	5,930	4,500	2,540	1,520	1,400
11	1,190	12,300	6,450	3,330	4,250	6,380	6,660	5,520	4,640	2,400	1,510	1,430
12	1,180	19,000	6,840	4,060	4,190	8,690	6,800	5,240	4,870	2,300	1,510	1,420
13	1,180	13,300	13,100	17,600	4,200	9,350	6,540	5,030	4,960	2,240	1,490	1,400
14	1,170	12,600	11,500	23,300	4,340	9,770	6,240	4,610	5,030	2,160	1,490	1,410
15	1,150	11,300	8,930	61,500	4,300	16,000	6,080	4,520	4,960	2,030	1,510	1,410
16	1,140	9,550	8,150	85,800	4,890	14,400	5,650	4,340	4,750	2,070	1,490	1,390
17	1,140	9,240	12,500	49,000	4,970	12,900	5,650	4,300	4,710	1,990	1,500	1,390
18	1,140	7,390	12,000	32,500	7,120	12,000	5,620	4,170	4,660	1,990	1,500	1,380
19	1,120	5,890	9,090	30,600	15,300	10,300	5,910	4,010	4,620	2,000	1,520	1,380
20	1,120	5,390	8,330	19,700	10,100	9,100	5,700	3,800	4,320	1,940	1,560	1,380
21	1,360	6,170	10,500	14,200	9,060	8,210	5,520	3,610	3,940	1,900	1,520	1,340
22	2,490	5,650	9,350	11,400	9,730	7,520	5,480	3,470	3,800	1,860	1,480	1,330
23	2,940	5,190	8,080	9,800	7,540	7,020	5,840	3,520	3,750	1,830	1,470	1,390
24	2,400	7,100	7,240	8,630	6,660	6,620	6,220	3,580	3,640	1,790	1,460	1,320
25	2,120	7,220	8,120	8,100	6,340	6,460	6,200	3,720	3,490	1,770	1,450	1,330
26	1,750	7,790	8,120	7,730	6,940	6,580	5,610	4,220	3,340	1,730	1,420	1,330
27	1,560	6,490	7,870	6,640	7,370	7,270	5,010	4,800	3,070	1,730	1,380	1,370
28	1,490	6,840	10,600	6,180	9,800	10,900	4,690	4,990	3,000	1,750	1,370	1,420
29	1,700	9,040	17,500	5,740	------	14,100	4,970	4,750	2,910	1,730	1,370	1,410
30	1,660	17,400	13,500	5,440	------	31,300	5,210	4,490	2,910	1,660	1,350	1,430
31	1,510	------	10,300	5,760	------	20,200	------	4,240	------	1,630	1,380	------
TOTAL	44,570	272,580	295,420	470,260	184,860	333,540	251,860	149,630	130,980	66,520	46,300	41,530
MEAN	1,438	9,086	9,530	15,170	6,602	10,760	8,395	4,827	4,366	2,146	1,494	1,384
MAX	2,940	25,000	17,500	85,800	15,300	31,300	31,100	6,400	6,320	2,930	1,620	1,430
MIN	1,120	1,660	5,290	3,330	4,190	6,320	4,890	3,470	2,910	1,630	1,350	1,320
AC-FT	88,400	540,700	586,000	932,800	366,700	661,600	499,600	296,800	259,800	131,900	91,840	82,370

CAL YR 1973 TOTAL 1,207,783 MEAN 3,309 MAX 25,000 MIN 836 AC-FT 2,396,000
WTR YR 1974 TOTAL 2,288,050 MEAN 6,269 MAX 85,800 MIN 1,120 AC-FT 4,538,000

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1630	12.30	28,500	1-16	0300	25.88	96,400
11- 8	1530	11.48	25,500	2-19	0900	9.05	18,100
11-12	1330	9.92	20,200	3- 1	2030	9.77	20,400
11-30	1730	11.03	23,900	3- 6	1630	7.25	13,000
12- 7	2130	7.75	14,000	3-15	1100	8.66	17,000
12-13	0900	8.11	15,000	3-30	1000	14,26	36,800
12-17	1700	8.37	15,700	4- 1	1630	16.13	44,800
12-29	1030	10.25	21,200				

14362000 APPLEGATE RIVER NEAR COPPER, OREG.

LOCATION.--Lat 42°03'30", long 123°06'30", in SE¼ sec.25, T.40 S., R.4 W., Jackson County, on right bank 0.2 mi (0.3 km) downstream from French Gulch, 1.2 mi (1.9 km) downstream from Squaw Creek, 2.6 mi (4.2 km) northeast of Copper, and at mile 46.3 (74.5 km).

DRAINAGE AREA.--223 mi² (578 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1318.

GAGE.--Water-stage recorder. Datum of gage is 1,759.66 ft (536.344 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 461 ft³/s (13.1 m³/s), 334,000 acre-ft/yr (412 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 29,800 ft³/s (844 m³/s) Jan. 15, gage height, 25.38 ft (7.736 m), from high-water mark in well, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of four slope-area measurements of peak flows made in 1950, 1955, 1964, and 1974; minimum, 35 ft³/s (0.99 m³/s) Sept. 25, 26.

Period of record: Maximum discharge, 29,800 ft³/s (844 m³/s) Jan. 15, 1974, gage height, 25.38 ft (7.736 m), from high-water mark in well, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of four slope-area measurements of peak flows made in 1950, 1955, 1964, and 1974; minimum, 20 ft³/s (0.57 m³/s) Sept. 23-25, 1939.

REMARKS.--Records fair. Some storage during winter in Squaw Lakes Reservoir, capacity, 1,100 acre-ft (1.36 hm³) on Squaw Creek above station. Diversion for irrigation above station in Applegate River basin; Grand Applegate ditch diverts around station on left bank; also diversion above station for irrigation into Thompson Creek basin. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	140	2,260	1,240	1,160	1,530	4,010	1,220	1,080	363	108	62
2	48	122	1,590	1,100	1,010	1,340	3,120	1,150	1,200	331	106	61
3	45	112	1,270	1,010	951	1,110	2,310	1,100	1,210	307	104	64
4	45	120	1,070	920	904	968	1,850	1,100	1,170	293	108	59
5	45	925	963	860	841	904	1,620	1,250	1,190	283	102	61
6	48	2,990	930	795	791	898	1,400	1,480	1,130	275	102	59
7	54	1,470	1,870	740	748	836	1,260	1,620	1,060	264	98	57
8	52	3,070	1,590	690	706	791	1,200	1,690	933	287	95	56
9	52	2,730	1,280	645	680	759	1,150	1,510	927	272	91	56
10	52	3,030	1,120	605	654	743	1,060	1,290	942	250	89	56
11	52	5,180	1,140	587	644	870	1,020	1,240	1,060	237	89	54
12	50	3,540	1,110	726	629	1,160	992	1,220	1,080	226	87	54
13	49	2,160	1,360	1,680	599	1,130	956	1,110	1,030	216	87	52
14	49	1,660	1,250	4,340	580	1,200	933	1,050	992	205	85	52
15	48	1,700	1,160	20,000	590	1,490	962	998	915	198	85	52
16	47	2,130	1,260	26,000	711	1,550	962	904	858	190	82	50
17	47	1,620	2,880	16,000	619	1,580	998	836	836	186	80	50
18	45	1,270	2,100	9,000	887	1,510	1,110	775	830	183	80	48
19	45	1,020	1,660	6,500	1,310	1,360	1,020	722	775	178	89	48
20	56	952	2,270	4,400	956	1,270	951	685	654	174	78	48
21	204	855	3,160	3,400	870	1,200	951	690	604	164	75	46
22	503	785	2,360	2,640	813	1,150	1,030	753	576	160	73	46
23	614	726	1,820	2,140	764	1,100	1,040	836	556	157	71	44
24	379	699	1,580	1,820	746	1,070	962	881	520	150	69	44
25	249	672	1,610	1,600	753	1,170	887	1,050	484	138	69	42
26	176	632	1,430	1,400	813	1,230	836	1,260	441	134	67	39
27	147	632	1,410	1,280	808	1,370	791	1,320	407	131	67	42
28	160	936	1,450	1,200	1,410	1,530	802	1,210	389	129	69	41
29	167	1,880	1,980	1,120	------	3,490	887	1,090	381	122	67	41
30	138	2,700	1,630	1,030	------	6,190	1,100	1,000	374	117	66	41
31	126	------	1,410	1,130	------	3,510	------	986	------	115	64	------
TOTAL	3,840	46,458	49,993	116,598	22,949	46,009	38,170	34,026	24,654	6,435	2,602	1,525
MEAN	124	1,549	1,613	3,761	820	1,484	1,272	1,098	822	208	83.9	50.8
MAX	614	5,180	3,160	26,000	1,410	6,190	4,010	1,690	1,210	363	108	64
MIN	45	112	930	587	580	743	791	685	374	115	64	39
AC-FT	7,620	92,150	99,160	231,300	45,520	91,260	75,710	67,490	48,900	12,760	5,160	3,020

CAL YR 1973 TOTAL 166,041 MEAN 455 MAX 5,180 MIN 28 AC-FT 329,300
WTR YR 1974 TOTAL 393,254 MEAN 1,077 MAX 26,000 MIN 39 AC-FT 780,000

PEAK DISCHARGE (BASE, 2,000 CFS)

NOTE.--No gage-height record Jan. 13-18.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1300	8.22	4,410	12-17	0800	7.51	3,810
11- 8	0900	8.29	4,460	12-21	0700	7.12	3,500
11-11	1400	10.43	6,470	1-15	unknown	25.38	29,800
11-30	1630	6.46	3,000	3-30	0030	12.17	8,290
12- 7	1130	5.83	2,520	5- 7	2300	4.57	2,090

14366000 APPLEGATE RIVER NEAR APPLEGATE, OREG.

LOCATION.--Lat 42°14'30", long 123°08'20", in NE¼ sec.26, T.38 S., R.4 W., Jackson County, on left bank 0.9 mi (1.4 km) downstream from Keeler Creek, 1.8 mi (2.9 km) southeast of Applegate, and at mile 26.7 (43.0 km).

DRAINAGE AREA.--483 mi² (1,251 km²).

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,285.33 ft (391.769 m) above mean sea level. Prior to Dec. 23, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 570 ft³/s (16.1 m³/s), 413,000 acre-ft/yr (509 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 37,200 ft³/s (1,050 m³/s) Jan. 15, gage height, 20.41 ft (6.221 m), from rating curve extended above 19,000 ft³/s (538 m³/s) on basis of weighted average of three slope-area measurements; minimum, 17 ft³/s (0.481 m³/s) Oct. 4.

Period of record: Maximum discharge, 45,700 ft³/s (1,290 m³/s) Dec. 22, 1964, gage height, 19.57 ft (5.965 m), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of average of slope-area measurements of flow at gage heights 18.00 ft (5.486 m) and 19.57 ft (5.965 m); maximum gage height, 20.41 ft (6.221 m) Jan. 15, 1974; minimum discharge, 7.0 ft³/s (0.198 m³/s) Sept. 18, 1945, Aug. 28, 1951, Sept. 15, 1960.

Flood of Feb. 20, 1927, reached a stage of 18.7 ft (5.70 m), from floodmarks.

REMARKS.--Records fair. No appreciable regulation. Many diversions for irrigation above station. McDonald Creek Canal diverts from McDonald Creek above station for irrigation in Bear Creek basin. Thompson Creek Irrigation Association ditch diverts above station for irrigation in Thompson Creek basin. Fowler-Keeler and Berryman ditches divert above station for irrigation below. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1738: Drainage area. WSP 1935: 1953(M), 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	171	3,260	1,620	1,610	3,130	5,300	1,600	1,300	455	140	46
2	21	159	2,170	1,410	1,400	2,960	4,360	1,490	1,500	425	140	46
3	23	142	1,660	1,270	1,290	2,180	3,360	1,410	1,550	393	130	44
4	21	140	1,380	1,150	1,230	1,770	2,820	1,400	1,490	361	130	44
5	20	989	1,190	1,050	1,130	1,600	2,540	1,570	1,550	354	120	42
6	21	3,620	1,100	950	1,050	1,640	2,240	1,890	1,460	343	120	42
7	33	1,640	2,090	868	1,010	1,540	1,960	2,080	1,390	332	110	40
8	32	3,340	1,980	811	958	1,390	1,840	2,160	1,190	328	110	40
9	30	2,950	1,550	763	920	1,290	1,720	1,980	1,150	361	100	38
10	34	3,430	1,340	710	882	1,240	1,580	1,670	1,230	328	100	38
11	35	6,170	1,360	677	846	1,400	1,510	1,590	1,320	307	95	38
12	34	4,850	1,310	825	825	1,970	1,450	1,560	1,360	290	90	35
13	34	2,950	1,890	2,170	790	2,000	1,370	1,390	1,320	276	85	36
14	34	2,150	1,780	5,020	756	1,950	1,330	1,310	1,260	263	80	36
15	34	1,990	1,580	23,800	743	2,390	1,340	1,250	1,170	253	75	34
16	34	2,650	1,620	33,100	897	2,510	1,320	1,120	1,080	240	75	34
17	35	2,010	3,550	15,500	783	2,480	1,350	1,040	1,050	240	70	34
18	36	1,560	2,820	10,900	927	2,350	1,510	966	1,020	220	70	34
19	35	1,210	2,180	9,170	1,770	2,080	1,390	905	989	220	65	32
20	42	1,100	2,600	5,700	1,290	1,890	1,280	846	853	220	65	32
21	131	1,010	4,160	4,250	1,230	1,720	1,260	839	763	200	60	32
22	618	905	3,160	3,410	1,160	1,630	1,360	875	723	200	60	30
23	716	811	2,430	2,880	1,060	1,530	1,390	966	704	200	55	30
24	505	811	2,020	2,510	1,030	1,460	1,290	997	666	190	55	28
25	324	776	2,120	2,240	1,050	1,540	1,190	1,170	623	190	55	28
26	234	729	1,880	1,990	1,210	1,650	1,120	1,480	572	180	50	29
27	187	699	1,810	1,800	1,250	1,780	1,050	1,650	523	170	50	28
28	182	966	1,860	1,660	2,340	2,180	1,030	1,540	491	160	50	31
29	219	2,100	2,480	1,520	-------	3,450	1,100	1,370	468	160	50	28
30	177	3,560	2,180	1,400	-------	8,800	1,350	1,260	460	150	48	25
31	159	-------	1,840	1,500	-------	4,750	-------	1,220	-------	150	48	-------
TOTAL	4,064	55,588	64,350	142,624	31,437	70,250	53,730	42,594	31,225	8,159	2,551	1,055
MEAN	131	1,853	2,076	4,601	1,123	2,266	1,791	1,374	1,041	263	82.3	35.2
MAX	716	6,170	4,160	33,100	2,340	8,800	5,300	2,160	1,550	455	140	46
MIN	20	140	1,100	677	743	1,240	1,030	839	460	150	48	25
AC-FT	8,060	110,300	127,600	282,900	62,360	139,300	106,600	84,490	61,930	16,180	5,060	2,090

CAL YR 1973 TOTAL 198,798 MEAN 545 MAX 6,170 MIN 10 AC-FT 394,300
WTR YR 1974 TOTAL 507,627 MEAN 1,391 MAX 33,100 MIN 20 AC-FT 1,007,000

NOTE.--No gage-height record July 17 to Sept. 25.

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1500	7.03	5,380	12-21	0930	6.50	4,490
11-11	1700	8.34	7,620	12-29	1030	5.23	2,920
11-16	0500	5.17	2,840	1-15	2230	20.41	37,200
11-30	1200	6.27	4,270	3- 1	1600	5.78	3,600
12- 7	1430	5.37	3,080	3-16	0230	4.92	2,550
12-17	1030	6.67	4,840	3-30	0330	10.29	11,300

14371300 GRAVE CREEK AT PEASE BRIDGE, NEAR PLACER, OREG.

LOCATION.—Lat 42°38'30", long 123°12'40", in SE¼ sec.6, T.34 S., R.4 W., Josephine County, on right bank 0.5 mi (0.8 km) downstream from Pease Bridge, 0.5 mi (0.8 km) upstream from Boulder Creek, 5.4 mi (8.7 km) east of Placer, and at mile 27.1 (43.6 km).

DRAINAGE AREA.—22.1 mi² (57.2 km²) at measuring site 0.5 mi (0.8 km) upstream.

PERIOD OF RECORD.—October 1940 to current year. Prior to October 1945 monthly discharge only, published in WSP 1318.

GAGE.—Water-stage recorder. Datum of gage is 2,354.2 ft (717.56 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Aug. 4, 1955, at sites 0.5 mi (0.8 km) upstream at datum 29.9 ft (9.11 m) higher.

AVERAGE DISCHARGE.—29 years (1945-74), 61.7 ft³/s (1.75 m³/s), 37.91 in/yr (963 mm/yr), 44,700 acre-ft/yr (55.1 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 5,420 ft³/s (153 m³/s) Jan. 15, gage height, 10.37 ft (3.161 m); minimum, 0.37 ft³/s (0.010 m³/s) Sept. 20, 23.

Period of record: Maximum discharge, 6,240 ft³/s (177 m³/s) Dec. 22, 1964, gage height, 11.20 ft (3.414 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage height 9.66 ft (2.944 m); minimum, 0.12 ft³/s (0.003 m³/s) July 15, 1970.

REMARKS.—Records good. No regulation. One small diversion above station. Prior to 1945, Columbia upper ditch diverted water about 2 mi (3 km) above station, bypassing station. All records given herein are for measuring site.

REVISIONS.—WSP 1738: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	15	456	140	165	190	632	58	18	4.7	1.1	.66
2	1.4	13	254	108	125	144	397	51	17	4.9	1.0	.62
3	1.4	11	180	88	98	103	257	46	17	4.7	1.0	.57
4	1.4	14	137	74	91	85	185	45	17	4.2	.92	.57
5	1.3	233	110	65	78	81	153	46	18	4.2	.80	.57
6	1.5	731	101	56	69	108	137	46	17	4.2	.80	.57
7	2.3	208	376	50	63	94	112	45	15	4.2	.86	.57
8	2.3	748	276	46	58	79	101	43	14	4.7	1.0	.57
9	2.0	502	182	42	53	70	92	39	13	5.3	.92	.57
10	1.9	516	140	38	50	69	79	35	12	4.7	.86	.57
11	1.8	632	129	36	47	121	77	32	12	4.7	.86	.57
12	1.7	551	137	72	46	219	77	33	11	4.2	.80	.62
13	1.6	338	180	748	43	165	71	29	10	4.0	.86	.57
14	1.6	308	177	1.620	42	185	68	28	9.6	3.6	.86	.53
15	1.5	428	182	4.260	43	351	67	28	8.9	3.4	.86	.53
16	1.5	519	254	2.600	69	383	63	27	9.2	3.2	.86	.53
17	1.5	304	830	817	67	407	64	29	8.9	3.0	.86	.50
18	1.5	198	407	621	117	320	66	31	8.4	3.0	.86	.50
19	1.6	137	245	449	327	242	61	33	8.1	2.9	.92	.47
20	3.7	125	260	269	180	205	56	32	7.8	2.7	1.1	.47
21	31	198	446	187	135	175	53	31	7.3	2.2	1.0	.47
22	35	93	288	140	101	160	56	28	7.0	2.2	.92	.47
23	53	92	200	112	83	142	55	27	7.3	2.2	.86	.47
24	31	116	163	94	76	131	54	25	7.0	2.0	.80	.47
25	18	127	192	83	81	142	57	25	6.7	1.9	.80	.43
26	12	125	168	75	94	147	57	25	6.7	1.9	.75	.43
27	9.2	147	182	69	97	172	53	25	6.2	1.7	.71	.43
28	13	393	228	64	248	369	50	23	5.8	1.6	.71	.47
29	17	708	369	60	------	530	52	22	5.3	1.4	.66	.47
30	12	670	260	57	------	685	59	20	4.9	1.3	.66	.47
31	9.8	------	165	94	------	365	------	19	------	1.2	.66	------
TOTAL	276.0	9.202	7.694	13.234	2.746	6.639	3.361	1.026	316.1	100.1	26.63	15.71
MEAN	8.90	307	248	427	98.1	214	112	33.1	10.5	3.23	.86	.52
MAX	53	748	830	4.260	327	685	632	58	18	5.3	1.1	.66
MIN	1.3	11	101	36	42	69	50	19	4.9	1.2	.66	.43
CFSM	.40	13.9	11.2	19.3	4.44	9.68	5.07	1.50	.48	.15	.04	.02
IN.	.46	15.49	12.95	22.28	4.62	11.18	5.66	1.73	.53	.17	.04	.03
AC-FT	547	18.250	15.260	26.250	5.450	13.170	6.670	2.040	627	199	53	31

CAL YR 1973 TOTAL 26.168.57 MEAN 71.7 MAX 830 MIN .37 CFSM 3.24 IN 44.05 AC-FT 51.910
WTR YR 1974 TOTAL 44.636.54 MEAN 122 MAX 4.260 MIN .43 CFSM 5.52 IN 75.13 AC-FT 88.540

PEAK DISCHARGE (BASE, 850 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0830	5.78	1,280	12-17	0600	5.67	1,280
11- 8	0900	5.40	1,110	1-15	1730	10.37	5,420
11-12	0500	4.88	883	3-30	0300	4.72	858
11-29	0330	4.97	962	4- 1	0900	4.75	870
11-30	1200	4.72	858				

14372300 ROGUE RIVER NEAR AGNESS, OREG.

LOCATION.--Lat 42°34'50", long 124°03'30", in NE¼NW¼ sec.6, T.35 S., R.11 W., Curry County, on left bank 0.8 mi (1.3 km) upstream from Shasta Costa Creek, 1.5 mi (2.4 km) north of Agness, 2.6 mi (4.2 km) upstream from Illinois River, and at mile 29.7 (47.8 km).

DRAINAGE AREA.--3,939 mi² (10,202 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 113.81 ft (34.689 m) above mean sea level (levels by U.S. Bureau of Public Roads).

AVERAGE DISCHARGE.--14 years, 6,731 ft³/s (191 m³/s), 4,877,000 acre-ft/yr (6.01 km³/yr).

EXTREMES.--Current year: Maximum discharge, 215,000 ft³/s (6,090 m³/s) Jan. 16; maximum gage height, 48.54 ft (14.795 m) Jan. 16, from floodmark (backwater from Illinois River); minimum discharge, 1,080 ft³/s (30.6 m³/s) Oct. 21.

Period of record: Maximum discharge, 290,000 ft³/s (8,210 m³/s) Dec. 23, 1964, from slope-area measurement; maximum gage height, 68.03 ft (20.736 m) Dec. 23, 1964, from floodmark (backwater from Illinois River); minimum discharge, 608 ft³/s (17.2 m³/s) July 9, 10, 1968.

REMARKS.--Records good. Occasional diurnal fluctuation caused by powerplants upstream; slight regulation by Fish Lake and Emigrant Lake. Many diversions for irrigation and mining. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,170	1,930	40,700	16,100	18,000	34,900	41,600	7,800	5,780	3,360	1,760	1,540
2	1,160	2,200	26,000	13,400	17,700	36,900	49,000	8,330	5,960	3,320	1,710	1,530
3	1,170	2,230	17,700	11,600	14,800	27,200	32,500	8,080	6,530	3,200	1,680	1,530
4	1,150	2,640	14,000	10,400	13,400	20,200	24,400	7,780	6,700	2,960	1,670	1,510
5	1,140	7,410	11,700	9,350	13,200	17,800	20,300	7,580	6,750	2,900	1,610	1,500
6	1,160	36,300	10,400	8,600	11,800	19,000	18,000	8,100	8,400	2,860	1,730	1,540
7	1,160	29,100	15,500	7,730	10,900	21,800	15,600	8,830	7,600	2,790	1,710	1,530
8	1,180	24,400	23,000	7,350	10,300	17,100	14,100	9,230	6,880	2,850	1,710	1,530
9	1,200	34,100	17,000	6,850	9,780	14,400	13,300	9,280	6,130	2,890	1,700	1,540
10	1,180	29,700	13,400	6,480	9,380	13,000	12,400	8,880	5,920	3,000	1,690	1,560
11	1,170	32,500	12,200	6,020	9,020	13,000	11,300	8,050	6,000	2,820	1,680	1,520
12	1,160	48,900	13,900	7,400	8,820	18,200	10,800	7,530	6,280	2,690	1,690	1,540
13	1,150	37,700	26,100	35,200	8,650	24,100	10,500	7,350	6,480	2,580	1,650	1,520
14	1,150	33,200	28,400	50,600	8,650	24,200	9,930	6,820	6,480	2,480	1,650	1,510
15	1,140	31,900	21,200	158,000	8,700	28,800	9,480	6,480	6,450	2,430	1,660	1,510
16	1,140	29,600	17,500	190,000	10,500	29,000	9,230	6,400	6,230	2,270	1,660	1,500
17	1,110	23,500	23,800	110,000	11,600	25,600	8,800	6,080	5,980	2,300	1,650	1,480
18	1,130	17,300	28,000	70,000	12,700	23,400	8,880	5,980	5,920	2,270	1,640	1,480
19	1,120	13,300	20,000	60,000	28,000	20,500	9,050	5,760	5,840	2,270	1,640	1,480
20	1,130	12,800	19,700	44,000	24,000	17,800	8,750	5,480	5,740	2,210	1,650	1,490
21	1,510	15,700	32,900	30,000	24,700	15,900	8,330	5,160	5,180	2,130	1,690	1,490
22	2,060	14,200	31,500	24,000	21,000	14,500	8,150	5,000	4,780	2,090	1,650	1,460
23	4,070	12,000	22,000	20,000	17,200	13,300	8,380	4,900	4,620	2,010	1,600	1,450
24	3,930	12,700	18,000	18,000	14,900	12,400	8,830	5,040	4,540	1,960	1,610	1,500
25	3,170	13,200	16,400	17,000	13,800	11,900	8,800	5,080	4,380	1,940	1,600	1,430
26	2,580	15,100	16,400	16,000	14,800	12,000	8,380	5,520	4,140	1,900	1,590	1,430
27	2,150	13,000	15,000	12,900	18,600	12,600	7,600	6,430	3,920	1,870	1,560	1,440
28	1,970	13,800	16,800	11,800	25,900	19,300	7,050	7,080	3,580	1,940	1,520	1,500
29	1,950	19,800	27,200	11,000	------	27,400	7,050	6,930	3,480	1,940	1,530	1,540
30	2,130	27,000	26,400	10,200	------	50,500	7,250	6,400	3,390	1,860	1,520	1,530
31	1,980	------	19,800	10,800	------	44,000	------	6,020	------	1,780	1,510	------
TOTAL	50,570	607,210	642,600	1,010.8M	410,800	680,700	417,740	213,380	170,060	75,870	50,920	45,110
MEAN	1,631	20,240	20,730	32,610	14,670	21,960	13,920	6,883	5,669	2,447	1,643	1,504
MAX	4,070	48,900	40,700	190,000	28,000	50,500	49,000	9,280	8,400	3,360	1,760	1,560
MIN	1,110	1,930	10,400	6,020	8,650	11,900	7,050	4,900	3,390	1,780	1,510	1,430
AC-FT	100,300	1,204M	1,275M	2,005M	814,800	1,350M	828,600	423,200	337,300	150,500	101,000	89,480

CAL YR 1973 TOTAL 2,220,310 MEAN 6,083 MAX 48,900 MIN 806 AC-FT 4,404,000
WTR YR 1974 TOTAL 4,375,740 MEAN 11,990 MAX 190,000 MIN 1,110 AC-FT 8,679,000

PEAK DISCHARGE (BASE, 35,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1430	15.55	46,200	1-16	-	48.54	215,000
11-12	1330	17.17	54,200	3- 2	0730	14.28	40,500
12- 1	0430	15.54	46,100	3-30	0530	18.68	63,400
12-21	1000	13.75	38,100	4- 1	0130	18.56	62,600

NOTE.--No gage-height record Jan. 16-27.

14372500 EAST FORK ILLINOIS RIVER NEAR TAKILMA, OREG.

LOCATION.--Lat 42°00'10", long 123°37'30", in SE¼NE¼ sec.15, T.41 S., R.8 W., Josephine County, on right bank 0.3 mi (0.5 km) downstream from Dunn Creek (California-Oregon State line), 3.4 mi (5.5 km) south of Takilma, and at mile 71.2 (114.6 km).

DRAINAGE AREA.--42.3 mi^2 (109.6 km^2).

PERIOD OF RECORD.--April to September 1926, April 1927 to April 1932, October 1940 to current year. Monthly discharge only for some periods, published in WSP 1318. Records prior to 1942 water year not equivalent owing to large diversions.

GAGE.--Water-stage recorder. Altitude of gage is 1,780 ft (543 m), from topographic map. Prior to Oct. 31, 1946, nonrecording gage at sites 0.6 mi (1.0 km) downstream at different datums. Oct. 31, 1946, to May 13, 1949, nonrecording gage and May 14, 1949, to Aug. 23, 1965, water-stage recorder at site 0.6 mi (1.0 km) downstream at datum 1,746.6 ft (532.36 m) above mean sea level.

AVERAGE DISCHARGE.--33 years (1941-74), 186 ft^3/s (5.27 m^3/s), 59.71 in/yr (1,517 mm/yr), 134,800 acre-ft/yr (166 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 6,430 ft^3/s (182 m^3/s) Jan. 15, gage height, 10.21 ft (3.112 m); minimum, 7.5 ft^3/s (0.212 m^3/s) Sept. 24-30.

Period of record: Maximum discharge, 15,700 ft^3/s (445 m^3/s) Dec. 22, 1964, gage height, 14.90 ft (4.542 m), present site and datum, from floodmark, from rating curve extended above 4,400 ft^3/s (125 m^3/s) on basis of slope-area measurement of peak flow; minimum, 4.6 ft^3/s (0.130 m^3/s) Nov. 3, 1960.

REMARKS.--Records good. No regulation. Two small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1184: 1948. WSP 1288: 1951(P). WSP 1398: 1946, 1947(M), 1949. WSP 1738: Drainage area (former site).

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	78	1,120	316	411	641	1,740	266	174	53	18	10
2	13	67	588	261	316	511	1,030	228	196	48	17	10
3	12	62	411	223	243	349	654	211	187	44	17	10
4	12	96	334	193	231	266	474	214	176	42	16	10
5	12	1,810	288	174	214	238	460	251	191	41	16	10
6	13	2,490	294	156	189	285	474	302	170	40	16	10
7	17	859	1,120	141	166	261	388	313	156	38	16	9.4
8	15	1,770	751	131	151	221	328	311	132	40	16	9.4
9	15	1,430	460	120	139	193	285	266	136	39	15	9.4
10	14	1,470	349	112	131	183	248	216	151	36	15	9.8
11	13	1,860	397	109	122	231	226	205	156	35	15	9.4
12	13	2,100	452	228	119	504	216	200	153	33	15	9.0
13	12	1,210	679	825	110	438	207	176	143	31	14	9.0
14	12	1,000	545	1,860	106	869	207	162	134	31	15	8.6
15	12	988	418	4,960	110	1,050	214	158	120	30	14	8.6
16	12	1,300	452	3,690	209	760	211	143	112	29	14	8.6
17	12	792	1,340	1,710	185	692	226	131	109	28	14	8.6
18	12	511	737	1,480	715	584	272	122	109	28	14	8.6
19	12	356	467	1,320	1,170	450	240	114	103	27	14	8.2
20	15	478	859	741	541	400	211	107	85	25	14	8.2
21	108	456	1,490	493	411	360	209	106	78	24	14	8.2
22	221	346	797	365	346	340	221	114	78	24	13	8.2
23	507	296	518	296	280	300	211	127	76	24	12	7.9
24	303	325	431	248	243	300	191	138	71	22	12	7.5
25	179	308	553	219	238	340	174	166	66	22	12	7.5
26	111	291	442	193	305	380	162	211	59	21	12	7.5
27	81	316	478	174	316	420	153	223	55	20	11	7.5
28	83	530	592	160	658	725	156	193	54	20	11	7.5
29	79	1,040	859	147	------	1,320	183	168	54	19	11	7.5
30	67	1,540	620	136	------	2,010	246	156	55	19	11	7.5
31	61	------	424	205	------	889	------	153	------	18	11	------
TOTAL	2,061	26,175	19,265	21,386	8,375	16,510	10,217	5,851	3,539	951	435	261.6
MEAN	66.5	873	621	690	299	533	341	189	118	30.7	14.0	8.72
MAX	507	2,490	1,490	4,960	1,170	2,010	1,740	313	196	53	18	10
MIN	12	62	288	109	106	183	153	106	54	18	11	7.5
CFSM	1.57	20.6	14.7	16.3	7.07	12.6	8.06	4.47	2.79	.73	.33	.21
IN.	1.81	23.02	16.94	18.81	7.37	14.52	8.99	5.15	3.11	.84	.38	.23
AC-FT	4,090	51,920	38,210	42,420	16,610	32,750	20,270	11,610	7,020	1,890	863	519

CAL YR 1973 TOTAL 75,620.8 MEAN 207 MAX 2,490 MIN 6.9 CFSM 4.89 IN 66.50 AC-FT 150,000
WTR YR 1974 TOTAL 115,026.6 MEAN 315 MAX 4,960 MIN 7.5 CFSM 7.45 IN 101.16 AC-FT 228,200

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	2000	8.20	3,720	1-15	1700	10.21	6,430
11- 8	0630	7.24	2,730	3-30	0030	7.55	3,030
11-12	0600	7.33	2,820				

14375100 SUCKER CREEK BELOW LITTLE GRAYBACK CREEK, NEAR HOLLAND, OREG.

LOCATION.--Lat 42°09'35", long 123°28'40", in NE¼SW¼ sec.24, T.39 S., R.7 W., Josephine County, on right bank 500 ft (152 m) downstream from Little Grayback Creek, 2.0 mi (3.2 km) downstream from Grayback Creek, 3.7 mi (6.0 km) northeast of Holland, and at mile 9.3 (15.0 km).

DRAINAGE AREA.--83.9 mi^2 (217.3 km^2).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,700 ft (518 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 272 ft^3/s (7.70 m^3/s), 44.03 in/yr (1,120 mm/yr), 197,100 acre-ft/yr (243 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 8,550 ft^3/s (242 m^3/s) Jan. 15, gage height, 8.20 ft (2.499 m); minimum, 23 ft^3/s (0.65 m^3/s) Sept. 22-30.

Period of record: Maximum discharge, 8,550 ft^3/s (242 m^3/s) Jan. 15, 1974, gage height, 8.20 ft (2.499 m); minimum, 20 ft^3/s (0.57 m^3/s) Sept. 12, 13, 1973.

Maximum stage since at least 1940, 10.8 ft (3.292 m) on Dec. 22, 1964, from floodmark, discharge, 19,300 ft^3/s (547 m^3/s), from estimate based on slope-area measurement of peak flow at site 0.7 mi (1.1 km) upstream.

REMARKS.--Records fair. Grayback Canal and 3 small diversions from Grayback and Cave Creeks divert water for domestic use and irrigation above station. Return flow from these diversions enters creek above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	53	1,550	642	471	749	2,050	444	400	145	56	32
2	25	44	992	576	433	672	1,530	422	433	137	56	32
3	25	40	790	522	400	526	1,090	405	433	129	54	32
4	25	51	667	468	389	455	861	411	416	125	54	32
5	25	686	594	432	361	427	784	466	422	121	51	32
6	28	1,300	552	396	339	466	714	532	405	117	54	31
7	33	594	1,040	360	328	438	637	570	378	117	51	31
8	29	1,160	953	338	312	400	600	582	345	125	49	30
9	29	1,180	777	316	295	372	559	537	350	121	47	31
10	44	1,390	673	290	284	356	515	482	378	113	46	31
11	33	2,420	686	280	273	400	488	460	394	105	46	30
12	25	2,340	693	360	268	606	466	444	400	102	46	30
13	25	1,440	849	654	257	594	438	411	383	99	44	28
14	25	1,210	836	1,250	251	707	433	389	367	95	44	28
15	24	1,180	751	5,870	251	875	427	372	334	92	44	28
16	24	1,290	777	6,140	301	868	416	350	312	89	42	27
17	24	1,070	1,330	3,570	273	875	427	323	301	89	42	27
18	24	868	1,070	2,850	526	819	477	306	295	89	42	27
19	25	706	868	2,160	924	721	438	290	279	83	44	26
20	32	712	985	1,480	606	651	416	273	235	79	42	26
21	100	680	1,340	1,080	515	612	411	273	215	76	41	26
22	196	612	1,070	931	444	570	416	279	210	76	39	26
23	240	564	881	756	400	537	411	290	205	73	39	26
24	124	570	797	665	383	521	389	301	195	71	39	25
25	79	564	829	600	389	554	367	345	186	71	37	25
26	55	552	751	532	416	576	356	416	172	68	35	25
27	46	552	725	493	427	637	339	444	163	66	35	23
28	65	712	745	460	756	777	339	411	154	66	35	25
29	57	1,010	901	433	------	1,220	361	383	150	61	35	25
30	46	1,790	816	405	------	2,420	411	361	150	61	35	23
31	42	------	725	433	------	1,480	------	361	------	59	34	------
TOTAL	1,600	27,340	27,013	35,742	11,272	21,881	17,566	12,333	9,060	2,920	1,358	840
MEAN	51.6	911	871	1,153	403	706	586	398	302	94.2	43.8	28.0
MAX	240	2,420	1,550	6,140	924	2,420	2,050	582	433	145	56	32
MIN	24	40	552	280	251	356	339	273	150	59	34	23
CFSM	.62	10.9	10.4	13.7	4.80	8.41	6.98	4.74	3.60	1.12	.52	.33
IN.	.71	12.12	11.98	15.85	5.00	9.70	7.79	5.47	4.02	1.29	.60	.37
AC-FT	3,170	54,230	53,580	70,890	22,360	43,400	34,840	24,460	17,970	5,790	2,690	1,670

CAL YR 1973 TOTAL 93,887 MEAN 257 MAX 2,420 MIN 21 CFSM 3.06 IN 41.63 AC-FT 186,200
WTR YR 1974 TOTAL 168,925 MEAN 463 MAX 6,140 MIN 23 CFSM 5.52 IN 74.90 AC-FT 335,100

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	1100	4.63	1,970	12-17	0630	4.17	1,560
11- 8	0800	4.26	1,630	1-15	1900	8.20	8,550
11- 9	2200	4.33	1,700	3-30	0030	5.40	3,100
11-12	0700	5.49	3,010	4- 1	1000	4.98	2,510
11-30	2030	5.17	2,530				

14375500 WEST FORK ILLINOIS RIVER BELOW ROCK CREEK, NEAR O'BRIEN, OREG.

LOCATION.--Lat 42°02'20", long 123°44'50", in SW¼SE¼ sec.34, T.40 S., R.9 W., Josephine County, on left bank 0.2 mi (0.3 km) downstream from Rock Creek, 3.0 mi (4.8 km) southwest of O'Brien, and at mile 12.8 (20.6 km).

DRAINAGE AREA.--42.4 mi^2 (109.8 km^2).

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,516.14 ft (462.119 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 227 ft^3/s (6.42 m^3/s), 72.70 in/yr (1,847 mm/yr), 164,500 acre-ft/yr (203 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,280 ft^3/s (150 m^3/s) Nov. 5, gage height, 10.46 ft (3.188 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 2-4.

Period of record: Maximum discharge, 16,100 ft^3/s (456 m^3/s) Dec. 22, 1964, gage height, 16.05 ft (4.892 m), from rating curve extended above 6,200 ft^3/s (176 m^3/s), on basis of slope-area measurement at gage height 14.79 ft (4.508 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 2-4, 1974.

REMARKS.--Records good October through June, poor thereafter. Occasional diurnal fluctuation caused by logpond upstream. Three small diversions from Elk Creek for irrigation above station.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	67	2.030	450	919	1.270	2.430	69	28	13	5.2	1.8
2	12	59	1.100	350	565	1.070	1.390	66	27	13	4.2	1.7
3	11	55	742	270	384	688	942	63	27	13	4.3	1.7
4	11	208	585	240	327	507	670	61	28	13	4.6	1.7
5	11	3.440	476	210	278	462	592	58	32	13	4.6	1.8
6	13	2.790	447	188	233	790	630	57	29	13	4.8	2.1
7	16	947	1.400	164	199	605	513	54	27	13	4.8	2.2
8	15	2.360	888	144	175	444	419	52	26	15	4.5	2.3
9	14	1.690	575	133	157	354	349	50	25	16	4.5	2.4
10	14	1.940	427	121	142	325	288	48	23	15	4.3	2.8
11	12	2.240	548	115	129	551	251	46	21	14	4.0	3.0
12	12	2.830	774	476	127	1.390	220	46	21	13	3.7	3.3
13	11	2.030	1.580	1.660	116	984	197	45	21	13	3.7	3.2
14	11	2.120	1.170	2.190	111	1.680	177	45	21	12	3.7	3.3
15	10	1.920	770	3.860	127	1.430	161	47	21	12	3.6	3.4
16	9.9	1.660	719	3.780	507	933	148	50	21	11	3.4	3.6
17	9.7	1.040	1.830	1.970	427	832	138	47	21	11	3.4	3.7
18	9.7	766	1.080	1.740	1.610	637	140	47	20	11	3.4	3.4
19	9.9	555	688	1.440	1.810	498	124	47	20	10	3.4	3.4
20	14	951	1.300	811	790	414	115	43	20	9.4	3.3	3.4
21	298	970	1.970	551	626	351	108	41	18	9.0	3.2	3.3
22	173	700	1.310	422	538	308	102	39	18	8.7	2.9	3.3
23	660	568	951	339	430	273	100	38	18	8.5	2.8	3.6
24	363	595	750	286	364	245	94	36	17	7.8	2.4	3.6
25	184	575	700	251	371	251	90	35	17	7.4	2.2	3.6
26	120	555	602	222	730	245	86	34	17	7.1	2.1	3.4
27	87	662	1.010	197	707	299	81	33	16	6.7	2.1	3.3
28	80	1.070	1.160	177	1.170	1.140	77	32	14	6.5	1.9	3.4
29	74	1.650	1.610	160	------	1.910	73	31	14	5.9	2.2	3.4
30	61	2.440	1.020	147	------	2.720	70	31	13	5.9	2.7	3.6
31	56	------	700	459	------	1.210	------	29	------	5.7	2.8	------
TOTAL	2.395.2	39.453	30.912	23.523	14.069	24.816	10.775	1.420	641	332.6	108.7	88.7
MEAN	77.3	1.315	997	759	502	801	359	45.8	21.4	10.7	3.51	2.96
MAX	660	3.440	2.030	3.860	1.810	2.720	2.430	69	32	16	5.2	3.7
MIN	9.7	55	427	115	111	245	70	29	13	5.7	1.9	1.7
CFSM	1.82	31.0	23.5	17.9	11.8	18.9	8.47	1.08	.50	.25	.08	.07
IN.	2.10	34.61	27.12	20.64	12.34	21.77	9.45	1.25	.56	.29	.10	.08
AC-FT	4.750	78.260	61.310	46.660	27.910	49.220	21.370	2.820	1.270	660	216	176

CAL YR 1973 TOTAL 107.738.5 MEAN 295 MAX 3.440 MIN 2.5 CFSM 6.96 IN 94.53 AC-FT 213.700
WTR YR 1974 TOTAL 148.534.2 MEAN 407 MAX 3.860 MIN 1.7 CFSM 9.60 IN 130.32 AC-FT 294.600

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	1630	10.46	5,280	1-18	1730	8.53	2,750
11- 8	0630	9.20	3,740	2-18	2200	9.11	3,640
11-12	0700	9.26	3,800	3-30	0030	9.60	4,200
11-30	1400	8.53	3,050	4- 1	0800	8.82	3,340
1-15	0100	10.11	4,830				

14377100 ILLINOIS RIVER NEAR KERBY, OREG.

LOCATION.--Lat 42°13'55", long 123°39'45", in SE¼SE¼ sec.29, T.38 S., R.8 W., Josephine County, on right bank 1.6 mi (2.6 km) upstream from Josephine Creek, 2.5 mi (4.0 km) northwest of Kerby, and at mile 50.3 (80.9 km).

DRAINAGE AREA.--380 mi² (984 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,198.08 ft (365.175 m) above mean sea level. Prior to Jan. 28, 1965, water-stage recorder, and Jan. 28 to Sept. 30, 1965, nonrecording gage 700 ft (213 m) downstream at datum 2.99 ft (0.911 m) lower.

AVERAGE DISCHARGE.--13 years, 1,394 ft³/s (39.5 m³/s), 49.82 in/yr (1,265 mm/yr), 1,010,000cre-ft/yr (1.25 km³/yr).

EXTREMES.--Current year: Maximum discharge, 33,000 ft³/s (935 m³/s) Jan. 15, gage height, 28.52 ft (8.693 m); minimum, 21 ft³/s (0.59 m³/s) Sept. 11.

Period of record: Maximum discharge, 92,200 ft³/s (2,610 m³/s) Dec. 22, 1964, gage height, 45.28 ft (13.801 m), from floodmark, site and datum then in use, from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of slope-area measurement of peak flow; minimum, 18 ft³/s (0.51 m³/s) Aug. 23, 1973.

REMARKS.--Records good. No regulation. Diversions for irrigation above station. Some diversions for mining and logpond operation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	314	10,500	2,820	4,660	6,730	12,100	1,160	659	168	51	32
2	94	311	5,500	2,300	3,160	6,290	8,420	1,080	717	163	50	30
3	92	288	4,000	1,990	2,450	4,240	5,800	1,010	720	162	53	29
4	90	359	3,200	1,730	2,180	3,100	4,310	983	694	151	46	28
5	90	11,500	2,600	1,530	1,950	2,670	3,740	1,050	707	148	47	25
6	110	15,500	2,430	1,370	1,740	3,590	3,710	1,200	694	144	49	25
7	130	5,130	6,870	1,210	1,590	3,170	3,120	1,290	665	137	45	26
8	120	11,400	5,210	1,100	1,460	2,550	2,690	1,310	597	148	40	24
9	125	8,660	3,510	1,000	1,370	2,160	2,380	1,230	573	163	38	25
10	100	10,800	2,710	912	1,290	1,960	2,070	1,050	591	157	40	26
11	91	12,700	3,060	853	1,230	2,460	1,860	943	610	153	35	24
12	87	15,600	3,570	2,190	1,200	5,590	1,710	909	622	144	32	25
13	83	10,600	7,580	8,240	1,140	5,130	1,590	848	576	137	33	28
14	78	9,810	6,260	11,000	1,100	6,820	1,510	790	556	128	38	28
15	77	9,240	4,330	26,200	1,110	7,500	1,450	766	532	113	36	24
16	74	8,960	3,860	28,100	2,390	5,520	1,380	730	493	105	32	26
17	73	5,860	9,380	15,900	2,130	5,030	1,370	691	480	111	32	25
18	72	4,260	6,390	12,600	4,980	4,290	1,570	662	467	109	32	27
19	74	3,060	4,200	10,700	9,800	3,430	1,420	631	457	98	35	28
20	80	4,240	6,250	6,760	4,570	2,940	1,280	582	423	93	32	27
21	710	4,540	11,000	4,760	3,790	2,630	1,240	562	382	90	32	28
22	1,050	3,330	7,120	3,760	3,370	2,410	1,230	556	347	87	32	28
23	2,100	2,620	5,140	3,220	2,680	2,220	1,210	570	333	74	32	28
24	1,750	2,640	4,070	2,740	2,350	2,060	1,140	576	306	71	31	28
25	993	2,440	3,950	2,290	2,240	2,150	1,070	622	263	69	34	25
26	647	2,400	3,330	2,020	3,220	2,340	991	733	259	78	34	28
27	476	2,230	4,030	1,820	3,430	2,420	947	811	236	72	32	28
28	404	3,920	4,920	1,670	6,070	5,670	905	773	211	56	32	28
29	414	6,720	7,150	1,550	------	8,600	924	710	196	54	32	28
30	353	10,900	5,160	1,450	------	15,100	1,050	662	181	53	35	28
31	305	------	3,610	2,310	------	7,570	------	634	------	52	32	------
TOTAL	11,038	190,332	160,890	166,095	78,650	138,340	74,187	26,124	14,547	3,488	1,154	809
MEAN	356	6,344	5,190	5,358	2,809	4,463	2,473	843	485	113	37.2	27.0
MAX	2,100	15,600	11,000	28,100	9,800	15,100	12,100	1,310	720	168	53	32
MIN	72	288	2,430	853	1,100	1,960	905	556	181	52	31	24
CFSM	.94	16.7	13.7	14.1	7.39	11.7	6.51	2.22	1.28	.30	.10	.07
IN.	1.08	18.63	15.75	16.26	7.70	13.54	7.26	2.56	1.42	.34	.11	.08
AC-FT	21,890	377,500	319,100	329,400	156,000	274,400	147,100	51,820	28,850	6,920	2,290	1,600

CAL YR 1973 TOTAL 562,668 MEAN 1,542 MAX 15,600 MIN 20 CFSM 4.06 IN 55.08 AC-FT 1,116,000
WTR YR 1974 TOTAL 865,654 MEAN 2,372 MAX 28,100 MIN 24 CFSM 6.24 IN 84.74 AC-FT 1,717,000

PEAK DISCHARGE (BASE, 11,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	2130	22.79	21,200	12-21	0930	17.61	12,400
11- 8	0900	20.94	17,700	1-15	2200	28.52	33,000
11-12	0930	22.49	20,600	2-19	0130	19.13	15,100
11-30	1630	19.18	14,800	3-30	0500	21.97	19,800
12-17	1000	17.09	11,700	1	1200	19.72	16,000

14378200 ILLINOIS RIVER NEAR AGNESS, OREG.

LOCATION.--Lat 42°31'15", long 124°02'35", in SW¼NW¼ sec.29, T.35 S., R.11 W., Curry County, on right bank 0.6 mi (1.0 km) downstream from Lawson Creek, 1.4 mi (2.3 km) upstream from Fox Creek, 2.8 mi (4.5 km) southeast of Agness, and at mile 3.0 (4.8 km).

DRAINAGE AREA.--988 mi^2 (2,559 km^2), at cable section 2.1 mi (3.4 km) downstream where all measurements are made.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.86 ft (38.362 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 4,591 ft^3/s (130 m^3/s), 63.10 in/yr (1,602 mm/yr), 3,326,000 acre-ft/yr (4.10 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 98,000 ft^3/s (2,775 m^3/s) Jan. 16, estimated on basis of runoff correlation with station near Kerby; maximum gage height, 34.58 ft (10.540 m) Jan. 16, backwater from Rogue River; minimum discharge, 133 ft^3/s (3.77 m^3/s) Sept. 27-30.

Period of record: Maximum discharge, 225,000 ft^3/s (6,370 m^3/s) Dec. 22, 1964, estimated on basis of runoff ratio with station near Selma; maximum gage height, 56.91 ft (17.346 m) Dec. 22, 1964, from floodmark (backwater from Rogue River); minimum discharge, 130 ft^3/s (3.68 m^3/s) Sept. 10, 11, 17, 1972, Sept. 16, 17, 1973.

REMARKS.--Records fair. No regulation. Many diversions above station for irrigation, mining, and logpond operation. Records include flow of Fox Creek. All records given herein are for measuring site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	1,180	38,800	9,450	13,800	20,000	36,000	2,640	1,320	512	259	177
2	337	1,090	21,000	7,630	11,500	19,000	24,000	2,550	1,350	489	252	173
3	319	1,020	14,100	6,420	9,180	13,000	17,000	2,400	1,390	478	248	170
4	319	1,610	11,000	5,440	8,150	9,000	13,000	2,280	1,380	473	245	170
5	319	25,600	9,030	4,800	7,350	8,200	11,500	2,800	1,470	457	242	167
6	314	49,000	8,470	4,270	6,630	11,000	11,000	3,000	1,410	451	235	163
7	365	17,700	21,900	3,820	6,030	10,000	9,000	3,200	1,330	441	231	160
8	301	33,000	18,300	3,470	5,580	8,500	8,000	3,200	1,250	551	231	153
9	292	35,900	12,000	3,190	5,130	7,000	7,500	2,600	1,170	607	224	153
10	292	42,500	9,210	2,950	4,780	6,500	6,500	2,400	1,140	534	220	153
11	305	45,700	9,390	2,750	4,520	7,500	5,500	2,200	1,150	500	213	153
12	292	55,300	13,600	6,500	4,400	13,000	5,000	2,000	1,150	478	209	153
13	283	38,300	26,300	38,400	4,150	16,000	4,800	1,900	1,120	457	205	147
14	269	34,800	23,000	43,300	3,940	15,000	4,400	1,800	1,060	435	205	147
15	256	44,500	16,800	52,000	4,680	22,000	4,200	1,800	1,030	425	205	147
16	248	42,200	13,900	82,000	9,700	20,000	4,000	1,810	980	402	205	147
17	248	23,900	28,500	78,000	9,090	16,000	3,800	1,740	955	392	205	147
18	248	15,500	21,300	45,000	12,400	14,000	4,040	1,640	914	392	202	147
19	244	11,100	14,000	34,900	30,000	12,000	3,820	1,590	890	388	195	141
20	296	12,800	21,300	20,600	21,000	9,500	3,500	1,520	859	369	195	138
21	1,770	14,600	46,500	15,000	13,000	8,790	3,290	1,450	806	351	195	138
22	2,840	12,300	31,500	13,000	10,000	8,040	3,190	1,410	759	342	195	138
23	3,550	10,100	20,000	11,000	8,000	7,330	3,150	1,390	726	334	191	138
24	4,540	9,800	14,900	9,000	7,000	6,750	2,990	1,380	700	322	191	138
25	2,810	9,510	13,600	8,000	6,500	6,800	2,780	1,380	661	310	187	135
26	1,960	9,700	11,300	7,200	9,000	7,540	2,610	1,470	636	302	184	135
27	1,500	9,550	11,800	5,800	10,500	8,640	2,490	1,580	619	298	184	133
28	1,340	17,600	14,100	5,000	15,000	20,600	2,370	1,580	596	298	184	133
29	1,290	30,500	22,500	4,500	------	28,000	2,360	1,490	557	282	177	133
30	1,150	35,300	17,400	4,210	------	43,000	2,510	1,410	540	270	177	133
31	1,050	------	12,200	6,420	------	21,000	------	1,340	------	266	177	------
TOTAL	29,707	691,660	567,700	544,070	261,010	423,690	214,300	60,950	29,918	12,606	6,468	4,460
MEAN	958	23,060	18,310	17,550	9,322	13,670	7,143	1,966	997	407	209	149
MAX	4,540	55,300	46,500	82,000	30,000	43,000	36,000	3,200	1,470	607	259	177
MIN	244	1,020	8,470	2,750	3,940	6,500	2,360	1,340	540	266	177	133
CFSM	.97	23.3	18.5	17.8	9.44	13.8	7.23	1.99	1.01	.41	.21	.15
IN.	1.12	26.04	21.37	20.49	9.83	15.95	8.07	2.29	1.13	.47	.24	.17
AC-FT	58,920	1,372M	1,126M	1,079M	517,700	840,400	425,100	120,900	59,340	25,000	12,830	8,850

CAL YR 1973 TOTAL 1,993,358 MEAN 5,461 MAX 55,300 MIN 137 CFSM 5.53 IN 75.05 AC-FT 3,954,000
WTR YR 1974 TOTAL 2,846,539 MEAN 7,799 MAX 82,000 MIN 133 CFSM 7.89 IN 107.18 AC-FT 5,646,000

NOTE.--No gage-height record Jan. 16, 17, Feb. 19 to Mar. 20.

PEAK DISCHARGE (BASE, 35,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 6	0600	18.51	62,700	12-21	1030	17.37	52,300
11- 8	1430	17.31	51,700	1-16	1530	-	98,000
11-10	0430	17.48	53,300	1-18	2400	17.71	55,400
11-12	1330	18.57	63,800	2-19	-	16.8	47,000
11-15	2200	17.15	50,300	3-29	-	18.22	60,300
11-30	2100	17.20	50,800				

14400000 CHETCO RIVER NEAR BROOKINGS, OREG.

LOCATION.--Lat 42°07'25", long 124°11'10", in SE¼ sec.12, T.40 S., R.13 W., Curry County, on right bank 16 ft (5 m) upstream from bridge, 0.5 mi (0.8 km) upstream from Elk Creek, 6.8 mi (10.9 km) northeast of Brookings, and at mile 10.7 (17.2 km).

DRAINAGE AREA.--271 mi^2 (702 km^2).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 2,617 ft^3/s (74.1 m^3/s), 131.14 in/yr (3,330 mm/yr), 1,896,000 acre-ft/yr (2.34 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 29,000 ft^3/s (821 m^3/s) Jan. 15, gage height, 16.45 ft (5.014 m); minimum daily, 55 ft^3/s (1.56 m^3/s) Sept. 27-30.

Period of record: Maximum discharge, 65,800 ft^3/s (1,860 m^3/s) Jan. 16, 1971, gage height, 27.45 ft (8.367 m); minimum recorded, 52 ft^3/s (1.47 m^3/s) Oct. 14, 15, 1970, but may have been lower during period of no gage-height record Oct. 16-27, 1970.

Flood of Dec. 22, 1964, reached a stage of 32.25 ft (9.830 m), from high-water mark on bridge pier, discharge, 85,400 ft^3/s (2,420 m^3/s), from rating curve extended above 45,000 ft^3/s (1,270 m^3/s).

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	928	16,800	4,000	7,290	11,000	18,100	744	284	151	97	70
2	283	851	10,300	3,200	4,680	8,910	12,200	692	275	146	95	70
3	254	795	6,590	2,800	3,380	5,970	7,590	647	263	143	87	68
4	238	1,500	4,760	2,400	2,890	4,330	5,250	621	279	141	77	65
5	222	23,000	3,830	2,100	2,440	3,680	4,330	605	408	138	89	65
6	283	20,000	3,850	1,900	2,150	5,110	4,320	605	338	136	89	65
7	355	9,000	11,600	1,700	1,930	4,490	3,560	585	297	136	89	65
8	319	15,000	8,000	1,570	1,730	3,640	3,080	560	275	208	87	65
9	301	12,000	5,500	1,460	1,570	2,950	2,840	533	259	297	86	65
10	265	15,000	4,200	1,380	1,510	2,680	2,450	499	251	218	84	62
11	243	18,000	4,800	1,300	1,390	3,970	2,190	473	240	179	82	62
12	233	21,000	5,600	4,230	1,450	7,850	1,980	457	229	162	80	64
13	216	16,000	11,300	21,600	1,300	6,910	1,800	432	222	151	78	61
14	206	17,000	9,500	21,300	1,270	11,300	1,630	447	218	146	78	59
15	192	15,000	6,800	25,300	2,110	13,900	1,510	505	218	141	78	59
16	187	13,000	6,200	23,600	6,540	9,220	1,390	544	211	136	77	59
17	177	9,000	14,000	20,000	4,740	7,650	1,280	550	215	141	75	59
18	173	6,600	10,000	16,800	8,520	5,620	1,260	488	205	148	78	59
19	168	5,000	6,000	15,100	15,700	4,160	1,170	457	201	143	77	59
20	165	7,000	10,000	8,640	7,310	3,410	1,100	437	201	133	78	58
21	4,000	7,400	16,200	5,720	5,160	2,900	1,020	422	195	126	75	58
22	3,000	5,000	11,000	4,190	4,040	2,560	985	408	189	124	73	58
23	6,000	4,000	7,800	3,290	3,160	2,250	978	394	182	119	73	58
24	4,800	3,500	6,200	2,800	2,600	2,000	899	372	179	117	73	56
25	3,000	3,200	6,000	2,400	2,390	2,090	842	359	176	113	73	56
26	1,910	3,000	5,200	2,200	3,880	2,350	798	350	179	108	70	56
27	1,400	2,800	6,300	1,920	4,650	2,850	756	338	176	106	70	55
28	1,220	12,400	7,600	1,820	11,300	9,570	726	326	170	104	72	55
29	1,070	21,500	10,700	1,640	------	16,200	720	314	165	104	68	55
30	928	18,300	8,000	1,550	------	20,200	738	305	156	102	68	55
31	858	------	5,000	3,900	------	13,000	------	292	------	97	70	------
TOTAL	32,979	306,774	249,630	211,810	117,080	202,720	87,492	14,761	6,856	4,414	2,446	1,821
MEAN	1,064	10,230	8,053	6,833	4,181	6,539	2,916	476	229	142	78.9	60.7
MAX	6,000	23,000	16,800	25,300	15,700	20,200	18,100	744	408	297	97	70
MIN	165	795	3,830	1,300	1,270	2,000	720	292	156	97	68	55
CFSM	3.93	37.7	29.7	25.2	15.4	24.1	10.8	1.76	.85	.52	.29	.22
IN.	4.53	42.11	34.27	29.08	16.07	27.83	12.01	2.03	.94	.61	.34	.25
AC-FT	65,410	608,500	495,100	420,100	232,200	402,100	173,500	29,280	13,600	8,760	4,850	3,610

CAL YR 1973 TOTAL 969,314 MEAN 2,656 MAX 23,000 MIN 57 CFSM 9.80 IN 133.06 AC-FT 1,923,000
WTR YR 1974 TOTAL 1,238,783 MEAN 3,394 MAX 25,300 MIN 55 CFSM 12.5 IN 170.05 AC-FT 2,457,000

NOTE.--No gage-height record Dec. 7 to Jan. 7.

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11- 5	time and discharge unknown			1-15	0300	16.45	29,000
11-12	time and discharge unknown			2-19	0030	14.81	23,800
11-29	0600	15.61	26,400	3-30	1000	14.99	24,500
12-21	time and discharge unknown			4- 1	1200	14.43	22,500

Discharge at ungaged sites

Monthly records for the following sites have been computed by routing methods described in USGS Circular 550. Circular 550 contains monthly records for these sites for water years 1928-65, including monthly flows adjusted for major upstream storage. Figures given here represent unadjusted flows, and are rated fair. Adjusted records are available and will be published in water-supply papers at five-year intervals.

14144700 COLUMBIA RIVER AT VANCOUVER, WASH.--Lat 45°37'15", long 122°40'20", in NE¼NW¼ sec.34, T.2 N., R.1 E., Clark County, 5.0 mi (8.0 km) upstream from Willamette River, and at mile 106.5 (171.4 km). Drainage area, 241,000 mi^2 (624,200 km^2), approximately. Records available, monthly discharge October 1927 to current year. Daily discharge for October 1963 to September 1969, published in annual data reports for Oregon, 1965-67, 1969.

14211808 WILLAMETTE RIVER (mouth) AT PORTLAND, OREG.--Lat 45°37'09", long 122°47'27", Multnomah County, center of channel at bifurcation of Willamette River and Multnomah Channel, and at mile 3.4 (5.5 km). Drainage area 11,200 mi^2 (29,000 km^2), approximately. Records available monthly discharge October 1927 to September 1972. See station 14211720 for equivalent records for current year.

14222870 COLUMBIA RIVER AT SAINT HELENS, OREG.--Lat 45°51'58", long 122°47'00", Columbia County, center of channel at intersection of Township (4/5N) line and Oregon-Washington boundary, 0.6 mi (1.0 km) east of Saint Helens and at mile 86.0 (138.3 km). Drainage area, 253,900 mi^2 (657,600 km^2), approximately. Records available, monthly discharge October 1927 to current year.

14245300 COLUMBIA RIVER AT LONGVIEW, WASH.--Lat 46°06'22", long 122°57'14", Cowlitz County, at Longview Bridge, 1.0 mi (1.6 km) south of Longview, 2.0 mi (3.2 km) downstream from Cowlitz River, and at mile 66.0 (106.2 km). Drainage area, 256,700 mi^2 (413,000 km^2), approximately. Records available, monthly discharge October 1927 to current year.

14280000 COLUMBIA RIVER AT MOUTH, NEAR ASTORIA, OREG.--Lat 46°15', long 124°05', Clatsop County, center of channel at river mouth, due north from original end of south jetty, 12.3 mi (19.8 km) northwest of Astoria, and at mile 0. Drainage area, 258,000 mi^2 (415,100 km^2), approximately. Records available, monthly discharge October 1927 to current year.

MONTHLY AND ANNUAL MEAN DISCHARGE IN CUBIC FEET PER SECOND

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ANNUAL
14144700 COLUMBIA RIVER AT VANCOUVER, WASH.													
1974	114,400	142,900	199,200	290,200	262,200	246,600	324,900	371,300	493,200	314,300	177,600	136,800	255,800
14222870 COLUMBIA RIVER AT SAINT HELENS, OREG.													
1974	131,500	256,200	343,600	429,000	348,200	335,800	393,300	409,700	532,400	330,700	187,200	147,600	320,000
14245300 COLUMBIA RIVER AT LONGVIEW, WASH.													
1974	136,300	277,200	370,700	460,700	370,200	354,400	410,600	424,500	553,100	343,100	191,500	151,300	336,500
14280000 COLUMBIA RIVER AT MOUTH, NEAR ASTORIA, OREG.													
1974	137,400	297,100	391,400	479,900	389,400	368,700	416,400	432,400	552,900	359,900	196,800	149,900	346,700

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

Discharge measurement made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Siuslaw River basin				
†14306920	Siuslaw River near Lorane, Oreg.	Lat 43°51'05", long 123°22'10", in NE¼ sec.11, T.20 S., R.6 W., Lane County, on left bank 0.5 mile below Siuslaw Falls, 0.4 mile downstream from Russell Creek, 7 miles northwest of Lorane, and at mile 99.3.	81.8	1968-74	12-21-73 1-17-74 8-26-74	966 2,920 *8.44
†14306940	Siuslaw River at Alma, Oreg.	Lat 43°52'55", long 123°29'30", in NE¼ sec.35, T.19 S., R.7 W., Lane County, on right and left banks 0.8 mile above Haight Creek, 1 mile southwest of Alma, and at mile 80.8.	120	1968-74	1-17-74 8-26-74	7,030 *14.6
†14306960	Esmond Creek near Austa, Oreg.	Lat 43°54'55", long 120°38'40", in NE¼ sec.16, T.19 S., R.8 W., Lane County, on right bank 200 ft below Leopold Creek, 6.2 miles south of Austa, and at mile 1.68.	15.6	1968-74	11-17-73 12-21-73 8-26-74	221 594 *1.15
†14306980	Wolf Creek near Austa, Oreg.	Lat 43°58'00", long 123°36'30", in NW¼ sec.36, T.18 S., R.8 W., Lane County, on right bank 1.1 miles below Saleratus Creek, 3.3 miles southeast of Austa, and at mile 1.5.	59.0	1968-74	12-21-73 8-26-74	1,490 *12.2
†14307020	Chickahominy Creek near Walton, Oreg.	Lat 44°01'55", long 123°35'20", in SW¼ sec.6, T.18 S., R.7 W., Lane County, on left bank 0.4 mile west of Walton, and at mile 0.2.	12.5	1968-74	12-21-73 1-15-74 8-26-74	421 1,470 *1.54
†14307050	Wildcat Creek near Austa, Oreg.	Lat 43°59'35", long 123°37'20", in NW¼ sec.23, T.18 S., R.8 W., Lane County, on right bank 1.0 mile below Fowler Creek, 1.5 miles southeast of Austa, and at mile 3.1.	51.9	1968-74	1-15-74 8-27-74	6,300 *8.47
†14307500	Lake Creek at Triangle Lake, Oreg.	Lat 44°09'40", long 123°34'10", in SW¼ sec.20, T.16 S., R.7 W., Lane County, on right bank 600 ft downstream from outlet of Triangle Lake, and at mile 18.81.	52.5	1931-55‡ 1968-74	6-05-74 8-26-74	55.6 *6.08
†14307570	Deadwood Creek near Deadwood, Oreg.	Lat 44°06'35", long 123°45'05", in SE¼NE¼ sec.10, T.17 S., R.9 W., Lane County, on left bank 1.0 mile north of Deadwood, and at mile 4.0.	57.4	1968-74	12-21-73 8-26-74	3,000 *13.6
†14307600	Indian Creek near Rainrock, Oreg.	Lat 44°06'45", long 123°50'55", in NE¼ sec.11, T.17 S., R.10 W., Lane County, on left bank 150 ft above Elk Creek, 2.6 miles north of Rainrock, and at mile 7.71.	37.0	1968-74	12-21-73 1-16-74 4-08-74 8-26-74	2,220 4,380 364 *23.9
†14307625	Knowles Creek near Mapleton, Oreg.	Lat 44°01'40", long 123°50'10", in NE¼ sec.12, T.18 S., R.10 W., Lane County, on right bank 1.0 mile east of Mapleton, 1.2 miles downstream from Jackson Creek, 3.0 miles southwest of Swisshome, and at mile 2.8.	17.7	1968-74	11-17-73 12-21-73 1-15-74 8-27-74	215 618 2,350 *.51
†14307630	Sweet Creek near Beck, Oreg.	Lat 43°59'10", long 123°54'10", in NW¼ sec.28, T.18 S., R.10 W., Lane County, on both banks 1.3 miles downstream from Cedar Creek, 3.4 miles southwest of Mapleton, and at mile 3.3.	19.8	1968-74	12-21-73 1-17-74 6-05-74 8-27-74	1,100 730 117 *4.38
†14307648	Condon Creek near Minerva, Oreg.	Lat 44°03'20", long 124°00'30", in NE¼ sec.33, T.17 S., R.11 W., Lane County, on right bank 1.5 miles downstream from Billie Creek, 2.5 miles southwest of Minerva, and at mile 1.3.	9.91	1968-74	11-09-73 11-12-73 8-27-74	498 352 *8.26

* Base flow.
† Also a crest-stage station.
‡ Operated as a continuous-record gaging station.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		QUINN RIVER BASIN (NEVADA)					
10352200	BLUE MOUNTAIN CREEK TRIBUTARY NEAR MCDERMITT, NEV.	Lat 42°17'03", long 117°43'06", in SW¼ sec.7, T.38 S., R.43 E., Malheur County, at culvert on BLM access road, 0.1 mile upstream from mouth, 0.5 mile south of Reservoir No. 4, and 22 miles north of McDermitt.	a2.2	1972-74	3-30-74	2.98	1.5
10352300	JACKSON CREEK TRIBUTARY NEAR MCDERMITT, NEV.	Lat 42°14'00", long 117°44'20", in N½ sec. 36, T.38 S., R.42 E., Malheur County, at culvert on BLM Star Valley Road 930-0, 15 miles north of McDermitt.	a6.6	1969-74	3-30-74	9.79	8.4
10352400	TURNER CREEK NEAR MCDERMITT, NEV.	Lat 42°02'18", long 118°06'55", in SW¼ sec.2, T.41 S., R.39 E., Malheur County, at culvert on BLM access road, 20 miles west of McDermitt.	a2.0	1972-74	3-30-74	-	20
		SILVER LAKE BASIN					
10390400	BRIDGE CREEK NEAR THOMPSON RESERVOIR OREG.	Lat 43°01'30", long 121°12'00" in S½ sec.29, T.29 S., R.13 E., Lake County, in Fremont National Forest, at culvert on Forest Service road 2800, 7.2 miles northwest of Thompson Reservoir, and 11 miles southwest of town of Silver Lake	10.6	1965-74	6-15-74	10.38	76
		MALHEUR AND HARNEY LAKES BASIN					
10392300	SILVIES RIVER NEAR SENECA, OREG.	Lat 44°10'30", long 119°12'50", in NW¼NW¼ sec.23, T.16 S., R.29 E., Grant County, in Malheur National Forest, at culvert on Forest Service road 1611, 100 feet downstream from Wickiup Creek, and 12 miles northwest of Seneca.	18.4	1967-74	3-15-74	12.99	96
10392800	CROWSFOOT CREEK NEAR BURNS, OREG.	Lat 43°53'55", long 119°29'50", in NE¼ sec.29, T.19 S., R.27 E., Harney County, in Ochoco National Forest, at culvert on Forest Service road 1939, 1 mile upstream from mouth, and 31 miles northwest of Burns.	8.50	1966-74	5-10-74	9.59	74
10393900	DEVINE CANYON NEAR BURNS,OREG.	Lat 43°46'20", long 119°00'05", in NE¼ sec.9, T.21 S., R.31 E., Harney County, at culvert at U.S. Highway 395, at junction with road to Baker Corral, 0.7 mile north of Ochoco National Forest boundary, and 15 miles north of Burns.	4.96	1965-74	3-15-74	12.59	9.0
10395200	SAGE HEN CREEK NEAR BURNS, OREG.	Lat 43°31'30", long 119°15'10", in NW¼ sec.4, T.24 S., R.29 E., Harney County, at culvert on U.S. Highway 395, 10.8 miles southwest of Burns.	-	1968-74	3-15-74	13.79	21
		SUNRISE VALLEY BASIN					
10406400	SUNRISE VALLEY TRIBUTARY NEAR FOLLYFARM, OREG.	Lat 43°04'45", long 118°11'15", in SW¼ sec.4, T.29 S., R.37 E., Malheur County, at culvert on State Highway 78, 2.5 miles east of county line, 3 miles north of Follyfarm, and 30.5 miles northwest of Burns Junction.	.78	1973-74	-	-	0
		GOOSE LAKE BASIN					
11341100	SALT CREEK NEAR LAKEVIEW, OREG.	Lat 42°17'35", long 120°20'45", in NW¼ sec.10, T.38 S., R.20 E., Lake County, at culvert on U.S. Highway 395, 1.7 miles upstream from mouth 2.6 miles north of Warner Valley Junction, and 7.6 miles north of Lakeview.	5.62	1964-74	3-15-74	14.68	47
11341200	CRANE CREEK NEAR LAKEVIEW, OREG.	Lat 42°07'05", long 120°17'25", in NW¼ sec.7, T.40 S., R.21 E., Lake County, in Fremont National Forest, at culvert on Crane Creek road, 1.5 miles east of crossing at U.S. Highway 395, and 6 miles southeast of Lakeview.	11.4	1966-74	3-15-74	12.25	62

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		KLAMATH RIVER BASIN					
11491800	MOSQUITO CREEK NEAR SHEVLIN, OREG.	Lat 43°05'40", long 121°32'50", in SE¼SE¼ sec.32, T.28 S., R.10 E., Klamath County, in Winema National Forest, at culvert on Forest Service road 283A, 150 ft south of intersection with road 283, 2 miles southwest of Jacks Corral, and 8 miles southeast of Shevlin.	2.63	1965-74	3-15-74	8.65	30
11494800	BROWNSWORTH CREEK NEAR BLY, OREG.	Lat 42°25'40", long 120°50'20", in NW¼NW¼ sec.28, T.36 S., R.16 E., Lake County, at culvert on Forest Service road 3610, in Fremont National Forest, 2 miles upstream from Hammond Creek, and about 12 miles east of Bly.	2.20	1965-74	4-03-74	11.75	35
11497800	CURRIER CREEK NEAR PAISLEY, OREG.	Lat 42°42'55", long 120°52'50", in NW¼NW¼ sec.18, T.33 S., R.16 E., Lake County, in Fremont National Forest, at culvert on Forest Service road 337, 100 ft east of junction with road 3313, 1.4 miles upstream from mouth, and 17 miles west of Paisley.	2.46	1965-74	4-03-74	14.36	90
11501300	CRYSTAL CREEK NEAR CHILOQUIN, OREG.	Lat 42°33'45", long 121°50'20", in SE¼ sec.2, T.35 S., R.7 E., Klamath County, in Winema National Forest, at culvert on Chiloquin Ridge road, 200 ft upstream from mouth, and 1.5 miles southeast of Chiloquin.	5.77	1965-74	4-03-74	14.11	40
11504400	THREEMILE CREEK NEAR CRYSTAL, OREG.	Lat 42°38'20", long 122°05'45", in SE¼ sec.3, T.34 S., R.6 E., Klamath County, in Winema National Forest, at culvert on Forest Service Road 3413A, 1.5 miles upstream from mouth, and 4 miles north of Crystal.	9.47	1965-74	4-03-74	10.72	†
11505550	LOST CREEK NEAR ROCKY POINT, OREG.	Lat 42°29'35", long 122°11'30", in SE¼ sec.26, T.35 S., R.5 E., Klamath County, in Winema National Forest, at culvert on Forest Service road 3561, 1.5 miles east of Long Lake, and 5.5 miles west of Rocky Point.	13.2	1966-74	4-03-74	10.98	155
11509400	KLAMATH RIVER TRIBUTARY NEAR KENO, OREG.	Lat 42°07'50", long 121°57'50", in SW¼ sec.35, T.39 S., R.7 E., Klamath County, at culvert on State Highway 66, 0.3 mile upstream from mouth, 1.8 miles west of Keno, and 4.0 miles east of Klamath River bridge.	1.02	1964-74	1-15-74	12.07	5.9
		SNAKE RIVER BASIN					
13172930	SPRING CREEK TRIBUTARY NEAR ROCKVILLE, OREG.	Lat 43°13'22", long 117°08'43", in SW¼ sec.7, T.27 S., R.46 E., Malheur County, at culvert on BLM access road, 6 miles west of State line, and 5 miles south of Rockville.	.76	1972-74	3-15-74	10.28	11
		OWYHEE RIVER BASIN					
13177805	TENT CREEK NEAR MCDERMITT, NEV.	Lat 42°02'00", long 117°16'15", in NW¼ sec.12, T.41 S., R.46 E., Malheur County, at culvert on BLM Star Valley access road, 8 mi southwest of Lookout Lake, and 23 mi east of McDermitt.	11.6	1974	3-07-74	10.77	195
13177885	POLE CREEK TRIBUTARY NEAR MCDERMITT, NEV.	Lat 42°09'02", long 117°23'36", in SW¼ sec.25, T.39 S., R.45 E., Malheur County, at culvert on BLM Star Valley Road, 9 miles northeast of McDermitt.	1.0	1971-74	3-07-74	4.83	17
13177895	ANTELOPE CREEK TRIBUTARY NEAR MCDERMITT, NEV.	Lat 42°15'55", long 117°31'45", in NW¼ sec.23, T.38 S., R.44 E., Malheur County, at culvert on BLM Star Valley road, 21 miles northeast of McDermitt.	3.20	1971-74	4-02-74	13.08	160
13177980	INDIAN CREEK NEAR JORDAN VALLEY, OREG.	Lat 42°39'25", long 117°12'10", in NE¼ sec.28, T.33 S., R.45 E., Malheur County, at culvert on BLM Soldier Creek project road, 24 miles south of Jordan Valley.	a4.0	1970-74	3-07-74	11.77	57
13181300	CROOKED CREEK NEAR BURNS JUNCTION, OREG.	Lat 42°24'09", long 117°51'27", in SW¼ sec.36, T.36 S., R.41 E., Malheur County, at twin culverts on U.S. Highway 95, 0.6 mile south of Basque maintenance yards, and 24.5 miles south of Burns Junction.	46.2	1973-74	3-02-74	10.91	2.0
13181400	CROOKED CREEK TRIBUTARY AT BURNS JUNCTION OREG.	Lat 42°45'48", long 117°51'15", in SW¼ sec.19, T.32 S., R.40 E., Malheur County, at culvert on U.S. Highway 95, 0.95 mile south of Burns Junction, and 13 miles southwest of Rome.	4.83	1973-74	4-02-74	1.86	.5
13182100	DAGO GULCH NEAR ROCKVILLE, OREG.	Lat 43°17'37", long 117°15'14", in SW¼SE¼ sec.18, T.26 S., R.45 E., Malheur County, at culvert on Bureau of Land Management Lesle Gulch Road, 0.2 mile west of Runaway Creek, and 8 miles west of Rockville.	3.09	1970-74	4-02-74	11.70	1
13182150	LONG GULCH NEAR ROCKVILLE, OREG.	Lat 43°19'17", long 117°11'42", in NW¼NE¼ sec.10, T.26 S., R.45 E., Malheur County, at culvert on Bureau of Land Management Lesle Gulch Road, 1.3 miles upstream from Bannock Gulch, and 4 miles west of Rockville.	1.38	1970-74	4-02-74	9.76	9.2

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		MALHEUR RIVER BASIN					
13213900	MALHEUR RIVER TRIBUTARY NEAR DREWSEY OREG.	Lat 43°46'56", long 118°21'30", in S½ sec.36, T.20 S., R.35 E., Harney County, at culvert on county road to Drewsey, 200 feet north of U.S. Highway 20, and 2 miles south of Drewsey.	2.28	1964-74	3-15-74	9.61	65
13219300	MALHEUR RIVER TRIBUTARY NEAR HARPER, OREG.	Lat 43°48'51", long 117°39'13", in SE¼ sec.23, T.20 S., R.41 E., Malheur County, at culvert on U.S. Highway 20, 4 miles southwest of Harper.	.10	1968-74	1-15-74	8.65	.3
13228300	LYTLE CREEK NEAR VALE, OREG.	Lat 43°57'26", long 117°13'33", in SE¼ sec.32, T.18 S., R.45 E., Malheur County, at culvert on Lytle Boulevard, 2 miles south of Vale.	6.46	1968-74	1-15-74	9.66	76
13229400	LOST VALLEY CREEK TRIBUTARY NEAR IRONSIDE, OREG.	Lat 44°18'50", long 117°54'10", in SW¼ sec.26, T.14 S., R.39 E., Malheur County, at culvert on U.S. Highway 26, 2.2 miles east of Ironside.	1.86	1966-74	1-15-74	8.30	33
13231700	CANYON CREEK TRIBUTARY NEAR BROGAN, OREG.	Lat 44°15'50", long 117°37'15", in NW¼ sec.18, T.15 S., R.42 E., Malheur County, at culvert on U.S. Highway 26, 0.3 mile upstream from mouth, and 5.8 miles west of Brogan.	1.24	1967-74	1-15-74	10.92	15
		MOORES HOLLOW BASIN					
13269200	MOORES HOLLOW TRIBUTARY NEAR WEISER, IDAHO	Lat 44°07'30", long 117°10'10", in SE¼SE¼ sec.18, T.16 S., R.46 E., Malheur County, at culvert on Interstate Highway 80N, 7.0 miles southeast of junction with U.S. Highway 30, and 8.0 miles southwest of Weiser.	.90	1964-74	1-21-74	17.72	2.0
		BURNT RIVER BASIN					
13272300	JOB CREEK TRIBUTARY NEAR UNITY, OREG.	Lat 44°27'50", long 118°12'00", in S½ sec.5, T.13 S., R.37 E., Baker County, on State Highway 7, 100 feet north of U.S. Highway 26 junction, and 2 miles north of Unity.	-	1966-74	1-13-74	12.18	13
13274600	BURNT RIVER TRIBUTARY AT DURKEE, OREG.	Lat 44°34'30", long 117°26'45", in SE¼ sec.28, T.11 S., R.43 E., Baker County, at culvert on Interstate Highway 80N, 0.6 mile upstream from mouth, and 0.8 mile southeast of Durkee.	1.80	1966-74	1-13-74	6.43	5.2
		POWDER RIVER BASIN					
13286300	WATERSPOUT CREEK NEAR BAKER, OREG.	Lat 44°50'10", long 117°33'45", in SE¼ sec.28, T.8 S., R.42 E., Baker County, at culvert on State Highway 86, 14 miles east of Baker.	.96	1968-74			0
13289100	IMMIGRANT GULCH NEAR RICHLAND, OREG.	Lat 44°47'10", long 117°08'05", in NW¼ sec.18, T.9 S., R.46 E., Baker County, at culvert on State Highway 86, 1.9 miles northeast of Richland, and 2.0 miles above maximum flow line. of Brownlee Reservoir.	6.64	1964-74	1-15-74	9.20	†
		PINE CREEK BASIN					
13290150	NORTH PINE CREEK NEAR HOMESTEAD, OREG.	Lat 45°05'25", long 116°53'45", in NW¼ sec.31, T.5 S., R.48 E., Baker County, at culvert on Forest Service road S51, 300 ft upstream from Doe Creek, and 5 miles northwest of Homestead.	2.89	1965-74	1-12-74	12.51	121
		IMNAHA RIVER BASIN					
13291200	MAHOGANY CREEK NEAR HOMESTEAD, OREG.	Lat 45°12'15", long 116°52'05", in NE¼ sec.19, T.4 S., R.48 E., Wallowa County, in Wallowa-Whitman National Forest, at culvert on Forest Service road S115, 500 feet upstream from mouth, and 12 miles north of Homestead.	4.00	1965-74	1-13-74	14.90	†
13291400	DEER CREEK NEAR IMNAHA, OREG.	Lat 45°33'00", long 116°47'30", in SW¼ sec.23, T.1 N., R.48 E., Wallowa County, in Wallowa-Whitman National Forest, at culvert on Forest Service road N206, 2 miles southeast of Imnaha.	1.73	1965-74	5-09-74	14.83	3.4
		GRANDE RONDE RIVER BASIN					
13318100	MCINTYRE CREEK NEAR STARKEY, OREG.	Lat 45°19'40", long 118°26'55", in SE¼SE¼ sec.5, T.3 S., R.35 E., Union County, in Wallowa-Whitman National Forest, at culvert on Forest Service road S217, 1.8 miles south of Union County line, and 7 miles north of Starkey.	1.80	1966-74	1-12-74	14.14	15

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		GRANDE RONDE RIVER BASIN--Continued					
13320400	LITTLE CREEK AT HIGH VALLEY, NEAR UNION, OREG.	Lat 45°12'45", long 117°46'30", in SW¼SE¼ sec.14, T.4 S., R.40 E., Union County, at county road bridge, 4 miles east of Union.	15.8	1948, 1952-74	6-05-74	10.85	135
13321300	LADD CANYON NEAR HOT LAKE, OREG.	Lat 45°11'36", long 118°00'48", on sec. lines 23 and 24, T.4 S., R.38 E., Union County, at culvert on U.S. Highway 30, 4 miles southwest of Hot Lake, and 9 miles southeast of La Grande.	15.5	1953, 1958-74	-	-	-
13322300	DRY CREEK NEAR BINGHAM SPRINGS, OREG.	Lat 45°38'10", long 118°06'55", in NE¼SE¼ sec.24, T.2 N., R.37 E., Umatilla County, in Umatilla National Forest, at culvert on Forest Service road N32 (Ruckel Road), at Umatilla County line, 9 miles southeast of Bingham Springs.	1.37	1956-74	1-14-74	30.20	47
13324150	RYSDAM CANYON TRIBUTARY NEAR MINAM, OREG.	Lat 45°36'55", long 117°47'45", in NE¼ sec.34, T.2 N., R.40 E., Union County, at culvert on county road, 0.2 mile upstream from mouth, 3.5 miles west of Minam.	.99	1967-74	1-13-74	25.57	62
13329700	TROUT CREEK TRIBUTARY NEAR CHICO, OREG.	Lat 45°35'50", long 117°15'35", in center of sec.1, T.1 N., R.44 E., Wallowa County at culvert on State Highway 3, 0.2 mile upstream from mouth, 1.0 mile south of Wallowa-Whitman National Forest boundary and 9.5 miles southwest of Chico.	.26	1967-74	1-15-74	9.71	12
13329750	TROUT CREEK TRIBUTARY AT ENTERPRISE, OREG.	Lat 45°26'20", long 117°17'00", in NW¼ sec.35, T.1 S., R.44 E., Wallowa County, at culvert on State Highway 3, 0.9 mile north of junction with State Highway 82 in Enterprise.	4.38	1967-74	1-12-74	18.52	90
13333050	BUFORD CREEK NEAR FLORA, OREG.	Lat 45°53'25", long 117°17'00", on sec. line 23 and 26, T.5 N., R.44 E., Wallowa County, at two culverts on county road, 1.0 mile west of junction with State Highway 3, 1.5 miles southeast of Flora.	.47	1967-74	1-15-74	9.18	23
13333100	DOE CREEK NEAR IMNAHA, OREG.	Lat 45°44'50", long 117°01'20", in NE¼ sec.14, T.3 N., R.46 E., Wallowa County, in Wallowa-Whitman National Forest, at culvert on Forest Service road N431, 0.1 mile north of Vigne Forest Camp, and 16 miles northwest of Imnaha.	5.49	1965-74	1-13-74	6.47	48
		WALLA WALLA RIVER BASIN					
14016080	DRY CREEK TRIBUTARY NEAR MILTON-FREEWATER, OREG.	Lat 45°53'05", long 118°23'28", in NE¼ sec.26, T.5 N., R.35 E., Umatilla County, at culvert on State Highway 11, 2.6 miles south of Milton-Freewater.	1.22	1967-74	4-02-74	19.95	54
		COLD SPRINGS CANYON BASIN					
14019120	NORTH FORK COLD SPRINGS CANYON TRIBUTARY AT HOLDMAN, OREG.	Lat 45°52'40", long 118°55'10", in N½ sec.34, T.5 N., R.31 E., Umatilla County, at culvert on county road, at mouth, and 0.6 mile east of Holdman.	2.86	1967-74	1-13-74	21.37	36
		UMATILLA RIVER BASIN					
14019400	ELBOW CREEK NEAR BINGHAM SPRINGS, OREG.	Lat 45°42'45", long 118°11'54", in NE¼ sec.28, T.3 N., R.37 E., Umatilla County, in Umatilla National Forest, at culvert on Forest Service road N32, 200 ft upstream from mouth, and 2.6 miles southeast of Bingham Springs.	.68	1965-74	6-20-74	12.81	86
14020800	MISSION CREEK AT ST. ANDREWS MISSION, OREG.	Lat 45°38'05., long 118°37'18", in SE¼ sec.24, T.2 N., R.33 E., Umatilla County, at culvert on county road, 0.1 mile east of St. Andrews School, and 8 miles east of Pendleton.	4.45	1958, 1963-74	3-30-74	16.11	67
14021600	NELSON CREEK AT PENDLETON, OREG.	Lat 45°40'56", long 118°48'24", on line between sec.3 and 4, T.2 N., R.32 E., Umatilla County, at culvert on U.S. Highway 395, 0.7 mile upstream from mouth, and 0.5 mile northwest of Pendleton.	2.56	1958-74	12-21-73	11.96	12
14032100	BUTTER CREEK TRIBUTARY NEAR PINE CITY, OREG.	Lat 45°38'30", long 119°24'50", in NW¼ sec.23, T.2 N., R.27 E., Umatilla County, at culvert on State Highway 19, 0.1 mile upstream from mouth, 1.8 miles north of county line, and 4.2 miles north of Pine City.	1.50	1948, 1963-74	1-14-74	8.69	30

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		JUNIPER CANYON BASIN					
14034240	LITTLE JUNIPER CANYON NEAR PINE CITY OREG.	Lat 45°33'32", long 119°36'00", in NE¼NW¼ sec.19, T.1 N., R.26 E., Morrow County, at culvert on county road, 8.0 miles west of Pine City.	4.87	1968-74	1-14-74	15.46	121
		WILLOW CREEK BASIN					
14034370	WILLOW CREEK TRIBUTARY NEAR HEPPNER, OREG.	Lat 45°13'40", long 119°20'00", in SW¼ sec.9, T.4 S., R.28 E., Morrow County, at culvert on Willow Creek Road, 300 ft above mouth, and 16.1 miles southeast of Heppner.	1.11	1958-74	3-19-74	11.41	1.1
14034830	CASON CREEK AT RUGGS, OREG.	Lat 45°15'50", long 119°41'05", in SW¼NE¼ sec.34, T.3 S., R.25 E., Morrow County, at culvert on Rhea Creek road, at junction with State Highway 207, at Ruggs.	2.21	1968-74	1-14-74	5.49	1.0
		JOHN DAY RIVER BASIN					
14036800	JOHN DAY RIVER NEAR PRAIRIE CITY, OREG.	Lat 44°19'10", long 118°33'25", in SE¼SW¼ sec.30, T.14 S., R.35 E., Grant County at culvert on Forest Service road 1427, in Malheur National Forest, 200 ft downstream from Call Creek, and 12 miles southeast of Prairie City.	17.4	1965-74	5-07-74	8.94	118
14038550	EAST FORK CANYON CREEK NEAR CANYON CITY, OREG.	Lat 44°14'45", long 118°54'40", in NE¼ sec.30, T.15 S., R.32 E., Grant County, in Malheur National Forest, at culvert on Forest Service road 1451, at mouth, and 10 miles south of Canyon City.	24.8	1965-74	5-15-74	13.11	254
14038600	VANCE CREEK NEAR CANYON CITY, OREG.	Lat 44°17'20", long 118°58'50", in NE¼ sec.10, T.15 S., R.31 E., Grant County, at culvert on U.S. Highway 395, at confluence with South Fork, 1.0 mile upstream from mouth, and 9.5 miles south of Canyon City.	6.54	1964-74	5-15-74	12.50	27
14038750	BEECH CREEK NEAR FOX, OREG.	Lat 44°34'05", long 119°06'30", in SE¼ sec.33, T.11 S., R.30 E., Grant County, at culvert on U.S. Highway 395, at entrance to Beech Creek Forest Camp, and 6.8 miles south of Fox.	1.94	1965-74	3-30-74	12.00	11
14038900	FIELDS CREEK NEAR MOUNT VERNON, OREG.	Lat 44°23'35", long 119°18'25", in SE¼ sec.35, T.13 S., R.28 E., Grant County, in Malheur National Forest, at culvert on Forest Service road 1451, 0.3 mile upstream from Big Canyon and 10 miles west of Mt. Vernon.	17.5	1965-74	3-30-74	10.32	100
14039200	VENATOR CREEK NEAR SILVIES, OREG.	Lat 43°59'55", long 119°16'30", in NW¼ sec.20, T.18 S., R.29 E., Grant County, in Malheur National Forest, at culvert on Forest Service road 1877, 1.5 miles above mouth, and 16 miles west of Silvies.	11.9	1966-74	5-10-74	12.46	108
14039400	JACKASS CREEK NEAR DAYVILLE, OREG.	Lat 44°21'10", long 119°33'10", in SW¼ sec.13, T.14 S., R.25 E., Grant County, at culvert on BLM road (project no. 205), at mouth, 10.4 road miles south of Dayville.	3.95	1969-74	3-30-74	9.00	36
14040700	WHISKY CREEK NEAR MITCHELL, OREG.	Lat 44°31'21", long 119°55'18", in SE¼ sec.14, T.12 S., R.23 E., Wheeler County, at culvert on U.S. Highway 26, 13.6 miles east of Mitchell.	2.22	1968-74	1-17-74	14.23	143
14040900	BRUIN CREEK NEAR DALE, OREG.	Lat 44°53'51", long 118°47'35", in SW¼ sec.6, T.8 S., R.33 E., Grant County, at culvert on Forest Service road SA-12, 12 miles southeast of Dale.	4.63	1969-74	5-05-74	11.92	32
14041900	LINE CREEK NEAR LEHMAN SPRINGS, OREG.	Lat 45°10'10", long 118°42'40", in NW¼ sec.3, T.5 S., R.33 E., Umatilla County, in Umatilla National Forest, at culvert on Forest Service road 524, 0.2 mile upstream from mouth, and 2 miles west of Lehman Springs.	2.27	1965-74	5-05-74	11.46	25
14043800	BRIDGE CREEK NEAR PRAIRIE CITY, OREG.	Lat 44°32'30", long 118°32'25", in NE¼ sec.7, T.12 S., R.35 E., Grant County, at culvert at intersection of Looney Springs Road and U.S. Highway 26, 3.1 miles east of Dixie Summit, and 13.4 miles east of Prairie City.	6.93	1964-74	5-10-74	9.15	79
14043850	COTTONWOOD CREEK NEAR GALENA, OREG.	Lat 44°39'10", long 118°51'55", in SE¼ sec.33, T.10 S., R.32 E., Grant County, in Malheur National Forest, at culvert on Forest Service road 1015, 2.5 miles upstream from mouth, and 4 miles south of Galena.	3.89	1965-74	5-03-74	12.49	93

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		JOHN DAY RIVER BASIN--Continued					
14043900	GRANITE CREEK NEAR DALE, OREG.	Lat 44°53'40", long 119°00'50", in NW¼ sec.8, T.8 S., R.31 E., Grant County, at culvert on U.S. Highway 395, 4.7 miles north of bridge on Middle Fork John Day River, and 8.2 miles south of Dale.	1.90	1965-74	1-17-74	13.67	9.0
14044100	PAUL CREEK NEAR LONG CREEK, OREG.	Lat 44°43'26", long 119°07'54", in SE¼ sec.5, T.10 S., R.30 E., Grant County, at culvert on State Highway 207, 1.5 miles east of long Creek.	3.50	1968-74	1-14-74	8.53	12
14046250	IVES CANYON NEAR SPRAY, OREG.	Lat 44°51'35", long 119°42'50", in SE¼NE¼ sec.22, T.8 S., R.25 E., Wheeler County, at culvert on State Highway 207, 4 miles south of National Forest boundary, and 4 miles northeast of Spray.	2.73	1967-74	1-14-74	12.73	24
14046300	BIG SERVICE CREEK NEAR SERVICE CREEK, OREG.	Lat 44°53'38", long 120°04'11", in NE¼NE¼ sec.10, T.8 S., R.22 E., Wheeler County, at culvert on State Highway 19, 7.8 miles north of Service Creek.	5.56	1968-74	1-14-74	7.38	8.6
14046400	DONNELY CREEK TRIBUTARY NEAR SERVICE CREEK, OREG.	Lat 44°46'20", long 120°00'10", in SE¼ sec.19, T.9 S., R.23 E., Wheeler County, at two culverts on State Highway 207, 1.8 miles south of Service Creek.	1.85	1964-74	1-14-74	9.71	7.2
14046650	CARROL CREEK NEAR MITCHELL, OREG.	Lat 44°33'07", long 120°20'25", in SW¼ sec.4, T.12 S., R.20 E., Wheeler County, at culvert on U.S. Highway 26, 11.5 miles west of Mitchell.	.28	1968-74	-	-	0
14046900	JOHN DAY RIVER TRIBUTARY NEAR CLARNO, OREG.	Lat 44°54'20", long 120°34'05", in NE¼ sec.4, T.8 S., R.18 E., Wasco County, at culvert on State Highway 218, 5 miles west of Clarno, and 8 miles east of Antelope.	1.36	1969-74	1-16-74	25.85	22
14047350	ROCK CREEK TRIBUTARY NEAR HARDMAN, OREG.	Lat 45°04'40", long 119°34'10", in NE¼ sec.2, T.6 S., R.26 E., Morrow County, in Umatilla National Forest, at culvert on Forest Service road 618, 0.5 mile upstream from mouth, and 8.5 miles southeast of Hardman.	6.25	1965-74	5-05-74	12.98	34
14047450	WEST FORK DRY CREEK NEAR GOOSEBERRY, OREG.	Lat 45°17'12", long 119°57'53", in SE¼SE¼ sec.20, T.3 S., R.23 E., Morrow County, at culvert on State Highway 206, 3.5 miles west of Gooseberry, and 10 miles northeast of Condon.	.81	1965-74	11-13-73	7.07	12
14047470	JUNIPER CANYON TRIBUTARY NEAR MIKKALO, OREG.	Lat 45°27'51", long 120°11'54", in SW¼ sec.21, T.1 S., R.21 E., Gilliam County, at culvert on Mikkalo Road, 0.1 mile upstream from mouth, and 1.7 miles east of Mikkalo.	1.94	1972-74	1-15-74	7.80	40
14048020	GRASS VALLEY CANYON NEAR GRASS VALLEY, OREG.	Lat 45°22'25", long 120°46'27", on sec. lines 23 and 26, T.2 S., R.16 E., Sherman County, at culvert on county road, 1 mile northeast of Grass Valley.	8.15	1958-74	1-16-74	16.68	256
14048040	GORDON HOLLOW AT DEMOSS SPRINGS, OREG.	Lat 45°30'40", long 120°40'55", in NW¼ sec.3, T.1 S., R.17 E., Sherman County, at culvert on U.S. Highway 97 at DeMoss Springs.	8.86	1959-74	1-16-74	8.84	91
		SPANISH HOLLOW BASIN					
14048300	SPANISH HOLLOW AT WASCO, OREG.	Lat 45°35'20", long 120°41'40", in NE¼ sec.9, T.1 N., R.17 E., Sherman County, at culvert on street in southeast Wasco, 1 block east of U.S. Highway 97.	8.05	1959-74	1-15-74	3.91	66
14048310	SPANISH HOLLOW TRIBUTARY AT WASCO, OREG.	Lat 45°35'30", long 120°42'55", on sec. lines 5 and 8, T.1 N., R.17 E., Sherman County, on State Highway 206, 0.9 mile west of junction of Highway 97 in Wasco.	6.13	1967-74	1-15-74	7.90	175
		DESCHUTES RIVER BASIN					
14077800	WOLF CREEK TRIBUTARY NEAR PAULINA, OREG.	Lat 44°16'39", long 119°49'00", in NW¼NW¼ sec.14, T.15 S., R.24 E., Crook County, in Ochoco National Forest, at culvert on Forest Service road 1438, 1.7 miles south of Crook County line, 13 miles northeast of Paulina.	2.15	1965-74	1-15-74	8.99	72

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft^3/s)
		DESCHUTES RIVER BASIN--Continued					
14078200	LIZARD GULCH NEAR HAMPTON, OREG.	Lat 43°35'20", long 119°59'00", in SW¼ sec.8, T.23 S., R.23 E., Lake County, in Glass Mountain conservation area, at culvert on U.S. Highway 20, and 15.5 miles east of Hampton.	19.6	1965-74	1-15-74	12.76	113
14078280	MIDDLE FORK CAMP CREEK NEAR PAULINA, OREG.	Lat 43°57'24", long 120°15'30", in NW¼ sec.6, T.19 S., R.21 E., Crook County, at two culverts on Camp Creek road, 0.2 mile upstream from mouth, and 20 miles southwest of Paulina.	-	1972-74	5-10-74	11.98	132
14078300	CEMETERY CREEK NEAR PAULINA, OREG.	Lat 44°06'36", long 120°10'30", in SW¼ sec.11, T.17 S., R.21 E., Crook County, at culvert on State Highway 380, 13.2 miles west of Paulina.	a5.1	1968-74	-	-	(b)
14078400	LOOKOUT CREEK NEAR POST, OREG.	Lat 44°18'40", long 120°14'24", in SW¼ sec.32, T.14 S., R.21 E., Crook County, in Ochoco National Forest, at culvert on Forest Service Road 143, and 16 miles northeast of Post.	7.53	1966-74	5-10-74	8.73	82
14079750	CROOKED RIVER TRIBUTARY NEAR POST, OREG.	Lat 44°10'42", long 120°34'06", in SE¼ sec.16, T.16 S., R.18 E., Crook County, at culvert on county road, 5.4 miles west of Post.	a.3	1968-74	-	-	(b)
14080100	BEAR CREEK TRIBUTARY NEAR BROTHERS, OREG.	Lat 43°56'17", long 120°34'51", in SE¼NW¼ sec.8, T.19 S., R.18 E., Crook County, at culvert on BLM Bear Creek road, 9 miles north of Brothers.	.86	1972-74	-	-	0
14080150	BEAR CREEK TRIBUTARY NO. 2 NEAR BROTHERS, OREG.	Lat 43°57'00", long 120°39'02", NE¼SE¼ sec.2, T.19 S., R.17 E., Crook County, at culvert on Bear Creek road, 0.2 mile upstream from mouth and 12 miles north of Brothers.	2.50	1972-74	-	-	0
14080180	SAGE HOLLOW TRIBUTARY NEAR MILLICAN, OREG.	Lat 43°50'41", long 120°43'07", in NW¼SW¼ sec.29, T.18 S., R.17 E., Crook County, at culvert on State Highway 27, 1.0 mile upstream from Bear Creek, and 12 miles northeast of Millican.	3.90	1972-74	3-07-74	9.13	7.1
14080300	BEAR CREEK TRIBUTARY NEAR MILLICAN, OREG.	Lat 44°03'40", long 120°44'20", near sec. lines 30 and 31, T.17 S., R.17 E., Crook County at culvert on State Highway 27, 13 miles northeast of Millican.	6.50	1969-74	-	-	(b)
[illegible]	DRY CREEK NEAR PRINEVILLE, OREG.	Lat 44°12'12", long 120°45'30", in [illegible] sec.12, T.16 S., R.16 E., Crook County, at culvert on Juniper Canyon road, 8 miles southeast of Prineville.	14.5	1960-74	1-10-74	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft³/s)
		DESCHUTES RIVER BASIN--Continued					
14100800	JORDAN CREEK NEAR TYGH VALLEY, OREG.	Lat 45°20'27", long 121°20'43", in SW¼NE¼ sec.6, T.3 S., R.12 E., Wasco County, in Mt. Hood National Forest, at culvert on Forest Service road S207, 10.5 miles northwest of Tygh Valley.	9.01	1965-74	1-14-74	16.98	515
14102300	BOX ELDER CANYON NEAR GRASS VALLEY, OREG.	Lat 45°21'37", long 120°54'10", in SW¼ sec.26, T.2 S., R.15 E., Sherman County, at culvert on BLM Deschutes River access road, at mouth, and 6 miles west of Grass Valley.	2.21	1971-74	1-15-74	10.06	34
		FIFTEENMILE CREEK BASIN					
14104100	RAMSEY CREEK NEAR DUFUR, OREG.	Lat 45°24'03", long 121°22'27", in NW¼ sec.13, T.2 S., R.11 E., Wasco County, in Mt. Hood National Forest, at culvert on Forest Service road S207, 12 miles west of Dufur.	3.87	1965-74	1-14-74	-	300
		WILLAMETTE RIVER BASIN					
14144870	MIDDLE FORK WILLAMETTE RIVER TRIBUTARY NEAR OAKRIDGE, OREG.	Lat 43°40'20", long 122°26'00", in SW¼ sec.10, T.22 S., R.3 E., Lane County, at culvert on Rigdon Road, 400 ft upstream from flow line of Hills Creek Reservoir, and 5.0 miles south of Oakridge.	.50	1960-74	1-15-74	16.76	49
14145690	SWAMP CREEK NEAR MCCREDIE SPRINGS, OREG.	Lat 43°38'40", long 122°12'45", in SE¼ sec.16, T.22 S., R.5 E., Lane County, in Willamette National Forest, at culvert on Forest Service road 2136, 0.7 mile upstream from mouth, and 6 miles southeast of McCredie Springs.	1.31	1965-74	1-15-74	8.25	19
14147600	TUMBLE CREEK NEAR WESTFIR, OREG.	Lat 43°52'50", long 122°22'30", in SW¼NE¼ sec.31, T.19 S., R.4 E., Lane County, in Willamette National Forest, at culvert on Forest Service road 194, at mouth, and 10.5 miles northeast of Westfir.	1.52	1965-74	1-18-74	8.43	35
14149700	FERN CREEK NEAR LOWELL, OREG.	Lat 43°51'50", long 122°41'05", in [illegible] sec.3, T.20 S., R.1 E., Lane County, at culvert on State Highway 58, at mouth, and 6 miles southwest of Lowell.	.44	1956-74	1-15-74	5.81	61
[illegible]	TRINITY CREEK NEAR BELKNAP SPRINGS, OREG.	[illegible]	[illegible]	[illegible]	1-15-74	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		WILLAMETTE RIVER BASIN--Continued					
14207920	POOP CREEK NEAR BIG BOTTOM, OREG.	Lat 44°58'35", long 121°50'33", in SW¼ sec.9 (unsurveyed), T.7 S., R.8 E., Clackamas County, in Mt. Hood National Forest, at culvert on Forest Service road S630, at mouth, and 3 miles southeast of Big Bottom.	1.74	1966-74	1-15-74	12.51	28
14208200	COLLAWASH RIVER TRIBUTARY NEAR BREITENBUSH HOT SPRINGS, OREG.	Lat 44°55'50", long 122°00'40", in NE¼SE¼ sec.25, T.7 S., R.6 E., Marion County, at culvert on Forest Service road S63, 0.5 mile north of Buse Creek, and 10 miles north of Breitenbush Hot Springs.	.39	1966-74	1-15-74	31.80	80
14208850	EAST FORK SHELLROCK CREEK NEAR GOVERNMENT CAMP, OREG.	Lat 45°08'30", long 121°53'33", in NW¼ sec.13, T.5 S., R.7 E., Clackamas County, in Mt. Hood National Forest, at culvert on Forest Service road S8B, 5 miles west of Timothy Lake, and 13.5 miles southwest of Government Camp.	2.30	1965-74	1-15-74	12.17	79
14209100	KINK CREEK NEAR GOVERNMENT CAMP, OREG.	Lat 45°04'15", long 121°57'45", in SW¼ sec.4, T.6 S., R.7 E., Clackamas County, at culvert 0.1 mile downstream from Kelly Creek, 0.2 mile upstream from mouth at Lake Harriet on the Oak Grove Fork Clackamas River, and 19 miles southwest of Government Camp.	3.75	1950-74	1-15-74	17.65	89
14209750	WHISKY CREEK NEAR ESTACADA, OREG.	Lat 45°12'30", long 122°09'30", in SW¼NW¼ sec.23, T.4 S., R.5 E., Clackamas County, in Mt. Hood National Forest, at culvert on Forest Service road S457, 0.1 mile upstream from mouth, and 10 miles southeast of Estacada.	1.06	1965-74	1-16-74	16.30	45
[illegible]	DUBOIS CREEK AT ESTACADA, OREG.	Lat 45°16'35", long 122°20'35", in NW¼ sec.29, T.3 S., R.4 E., Clackamas County, at culvert 0.4 mile upstream from mouth, and 0.3 mile southeast of Estacada.	[illegible]	[illegible]	1-16-74	[illegible]	[illegible]
[illegible]	[illegible] CREEK AT PORTLAND, OREG.	Lat [illegible], long [illegible], in [illegible] sec.13, T.1 S., R.1 E., Multnomah County, at culvert at intersection of [illegible] Streets in Portland, [illegible] feet downstream from U.S. Highway 30, and [illegible] mile upstream from mouth.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		CLATSKANIE RIVER BASIN					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft^3/s)
		LITTLE NESTUCCA RIVER BASIN					
14303650	SQUAW CREEK NEAR NESKOWIN, OREG.	Lat 45°06'36", long 123°53'4", in NW¼ sec.27, T.5 S., R.10 W., Tillamook County, in Siuslaw National Forest, at culvert on Forest Service road S533, 1 mile upstream from mouth, and 4 miles east of Neskowin.	2.11	1965-74	1-16-74	14.46	165
		SALMON RIVER BASIN					
14303700	ALDER BROOK NEAR ROSE LODGE, OREG.	Lat 45°01'20", long 123°51'D", in SE¼ sec.25, T.6 S., R.10 W., Lincoln County, at culvert on State Highway 18, 0.1 mile upstream from mouth, and 1.5 miles northeast of Rose Lodge.	1.09	1954-74	11-13-73	11.45	57
		ALSEA RIVER BASIN					
14306830	LYNDON CREEK NEAR WALDPORT, OREG.	Lat 44°27'00", long 123°58'0", in SE¼ sec.11, T.13 S., R.11 W., Lincoln County, in Siuslaw National Forest, at culvert on Forest Service road 1265, 0.9 mile upstream from mouth, and 4 miles northeast of Waldport.	.90	1965-74	1-16-74	7.62	90
		MILL CREEK BASIN					
[illegible]	MILL CREEK NEAR YACHATS, OREG.	Lat 44°13'15", long 124°06'[illegible]", in NE¼ sec.34, T.15 S., R.12 W., Lane County, in Siuslaw National Forest, at culvert on Forest Service road 1571, 0.2 mile upstream from mouth, and 7 miles south of Yachats.	1.65	1966-74	11-13-73	11.81	210
		SIUSLAW RIVER BASIN					
[illegible]	SIUSLAW RIVER NEAR LORANE, OREG.	[illegible]	81.0	1968-74	1-16-74	22.9	6,870
[illegible]	SIUSLAW RIVER AT ALMA, OREG.	[illegible]	120	1968-74	1-16-74	22.72	9,260
[illegible]	[illegible]	[illegible]	15.6	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft³/s)
		SIUSLAW RIVER BASIN--Continued					
14307630	SWEET CREEK NEAR BECK, OREG.	Lat 43°59'10", long 123°54'10", in NW¼ sec.28, T.18 S., R.10 W., Lane County, on both banks 1.3 miles downstream from Cedar Creek, 3.4 miles southwest of Mapleton and 3.3 miles upstream from mouth.	19.8	1968-74	1-16-74	6.85	3,210
14307640	SAM CREEK NEAR MINERVA, OREG.	Lat 44°09'08", long 123°56'49", in NE¼ sec.25, T.16 S., R.11 W., Lane County, in Siuslaw National Forest, at culvert on Forest Service road 1658, 5.5 miles north of Minerva.	2.58	1965-74	1-15-74	11.57	333
14307648	CONDON CREEK NEAR MINERVA, OREG.	Lat 44°03'20", long 124°00'30", in NE¼ sec.33, T.17 S., R.11 W., Lane County, on right bank 1.5 miles downstream from Billie Creek 2.5 miles southwest of Minerve and 1.3 miles above mouth.	9.91	1968-74	1-16-74	4.99	1,690
		UMPQUA RIVER BASIN					
14307685	MU[illegible] CREEK NEAR TILLER, OREG.	Lat 43°06'00", long 122°44'55", in SW¼ sec.30, T.28 S., R.1 E., Douglas County, in Umpqua National Forest, at culvert on Forest Service road 2719, at mouth, and 15.5 miles northeast of Tiller.	2.65	1965-74	1-13-74	11.46	235
14308950	BEAVER CREEK NEAR DREW, OREG.	Lat 42°48'40", long 122°50'30", in NE¼NW¼ sec.12, T.32 S., R.3 W., Douglas County, in Umpqua National Forest, at culvert on Forest road 3232, 0.2 mile upstream from mouth and 7 miles southwest of Drew.	1.61	1965-74	1-16-74	11.77	210
14312100	PARROTT CREEK AT ROSEBURG, OREG.	Lat 43°11'45", long 123°20'50", in NW¼ sec.25, T.27 S., R.6 W., Douglas County, at culvert on Stormer Street between Marsters and Booth Streets in Roseburg, 0.5 mile upstream from mouth.	2.42	1952-74	1-15-74	12.16	132
14312700	THIELSEN CREEK NEAR DIAMOND LAKE, OREG.	Lat 43°13'10", long 122°08'15", in SW¼ sec.17, T.27 S., R.6 E., (unsurveyed), Douglas County, in Umpqua National Forest, at culvert on State Highway 209, and 3 miles north of resort of Diamond Lake.	12.2	1966-74	5-06-74	11.64	71
[illegible]	[illegible] CREEK NEAR IDLEYLD PARK, OREG.	Lat 43°17'55", long 122°30'15", in [illegible] sec.[illegible], T.26 S., R.[illegible] E., Douglas County, in Umpqua National Forest, at culvert on State Highway 138, [illegible] miles [illegible] of [illegible] station, and 19 miles east of Idleyld Park.	[illegible]	1965-74	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft³/s)
		COQUILLE RIVER BASIN					
14326600	GETTYS CREEK NEAR MYRTLE POINT, OREG.	Lat 43°00'30", long 124°12'40", in SE¼SE¼ sec.35, T.29 S., R.13 W., Coos County, at culvert on county road, 0.2 mile upstream from mouth, and 5.5 miles southwest of Myrtle Point.	1.45	1953-74	1-15-74	13.74	155
14326820	MIDDLE CREEK TRIBUTARY NEAR MCKINLEY, OREG.	Lat 43°11'50", long 124°01'25", in SE¼SE¼ sec.29, T.27 S., R.11 W., Coos County, at culvert on Middle Creek road, 0.6 mile north of McKinley, and 8 miles east of Coquille.	1.29	1971-74	1-15-74	19.66	69
14327050	GLEN AIKEN CREEK TRIBUTARY NEAR COQUILLE, OREG.	Lat 43°08'50", long 124°09'50", in SE¼NE¼ sec.18, T.28 S., R.12 W., Coos County, at culvert on Glen Aiken Creek road, 3 miles southeast of Coquille.	.33	1971-74	1-15-74	9.30	16
		ELK CREEK BASIN					
14327240	MILBURY CREEK NEAR PORT ORFORD, OREG.	Lat 43°43'20", long 124°15'00", in NW¼ sec.16, T.33 S., R.13 W., Curry County, in Siskiyou National Forest, at culvert on Forest Service road 325, at mouth, and 13 miles east of Port Orford.	.80	1966-74	1-16-74	29.08	164
		BRUSH CREEK BASIN					
14327400	DRY RUN CREEK NEAR PORT ORFORD, OREG.	Lat 42°41'20", long 124°26'00", in NW¼ sec.25, T.33 S., R.15 W., Curry County, at culvert in Humbug Mountain State Park and 5 miles southeast of Port Orford.	.86	1956-74	1-16-74	16.67	162
		ROGUE RIVER BASIN					
14327490	NATIONAL CREEK NEAR UNION CREEK, OREG.	Lat 43°00'15", long 122°21'50", in E½ sec.32, T.29 S., R.4 E., Douglas County, at culvert on Forest Service road 2967 in Rogue River National Forest, 0.3 mile upstream from mouth, and 9 miles northeast of town of Union Creek.	10.3	1965-74	1-15-74	19.18	178
[illegible]	[illegible] CREEK NEAR PROSPECT, OREG.	Lat 42°47'10", long 122°23'55", in SW¼SW¼ sec.10, T.32 S., R.4 E., Jackson County, at culvert on Forest Service road 3227 in Rogue River National Forest, 0.2 mile upstream from mouth, and 5 miles northeast of Prospect.	1.50	1965-74	1-15-74	8.92	25
[illegible]	[illegible] CREEK NEAR BUTTE FALLS, OREG.	Lat 42°36'10", long 122°26'10", in SE¼ sec.30, T.34 S., R.3 E., Jackson County, in Rogue River National Forest, at culvert on Forest Service road 3510B, 0.8 mile upstream from mouth, and 8 miles east of Butte Falls.	4.77	1966-74	1-15-74	9.31	83
[illegible]	[illegible] CREEK NEAR ASHLAND, OREG.	Lat [illegible], long [illegible], in [illegible] sec.[illegible], T.38 S., R.1 E., Jackson County, at culvert on Interstate Highway 5, [illegible] mile upstream from mouth, and 1.4 miles southeast of Ashland.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
		[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (ft)	Discharge (ft^3/s)
		RANSOM CREEK BASIN					
14378900	RANSOM CREEK NEAR BROOKINGS, OREG.	Lat 42°03'45", long 124°18'00", in NE¼ sec.1, T.41 S., R.14 W., Curry County, at culvert on U.S. Highway 101, 0.1 mile upstream from mouth, and 1.2 miles northwest of Brookings.	.74	1953-74	3-20-74	27.26	210

* Revised.
† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Approximately.
b No flow observed.

Measurements of streamflow at point, other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterick (*), measurements of peak flow by a (†)

Discharge measurements at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13		SNAKE RIVER BASIN				
Powder River	Snake River	NW¼NW¼ sec.34, T.7 S., R.39 E.	-	-	3-09-74	96.5
North Powder River	Powder River	SE¼NW¼ sec.5, T.7 S., R.38 E.	-	-	7-19-74 7-27-74 8-12-74 8-13-74	72.8 40.0 19.6 34.6
Part 14		DESCHUTES RIVER BASIN				
Deschutes River	Columbia River	NW¼NW¼ sec.28, T.31 S., R.8 E.	-	1938-49†, 1950, 1952-57, 1960-73	10-26-73 11-26-73 12-17-73 1-30-74 3-15-74 5-06-74 6-21-74 8-12-74 9-25-74	c415 c358 c312 c328 c310 c414 c1,060 c1,080 c918
Part 14		HOOD RIVER BASIN				
Clear Branch	Middle Fork Hood River	NW¼NE¼ sec.28, T.1 S., R.9 E.	-	1933, 1959	8-15-74 9-05-74	*26.1 *20.8
Pinnacle Creek	Clear Branch	SE¼NW¼ sec.27, T.1 S., R.9 E.	-	-	8-15-74	*9.57
Part 14		WILLAMETTE RIVER BASIN				
Waldo Lake tunnel	Black Creek	Outlet to unused tunnel from Klovdahl Bay in sec.36, T.21 S., R.5½ E. (unsurveyed)	-	1937, 1940, 1943, 1945, 1948, 1950-52, 1956, 1957, 1969-71, 1973	9-05-74	.51
French Pete Creek	South Fork McKenzie River	Lat 44°02'32", long 122°11'40" (unsurveyed)	-	1973	10-30-73 11-09-73 6-06-74 8-16-74	23.8 283 627 *19.6
Cogswell Creek	Leaburg power canal	NW¼NW¼ sec.1, T. 17 S.	-	-	10-04-73	*.86
[illegible] Creek	McKenzie River	[illegible]	-	1973	10-26-73 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Little North Santiam River	North Santiam River	[illegible]	[illegible]	1973	[illegible]	[illegible]
[illegible] Creek	Little Luckiamute River	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Luckiamute River	Willamette River	[illegible]	-	[illegible]	[illegible]	[illegible]
North Fork [illegible] Creek	[illegible] Creek	[illegible]	-	[illegible]	[illegible]	[illegible]
Do.	Do.	[illegible]	-	[illegible]	[illegible]	[illegible]
[illegible] Creek	Willamette River	[illegible]	-	[illegible]	[illegible]	[illegible]

Discharge measurements at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 14		WILLAMETTE RIVER BASIN--Continued				
Palmer Creek	Yamhill River	NW¼SW¼ sec.31, T.5 S., R.3 W.	-	-	5-17-74	1.59
Do......	.....do.....	SE¼SW¼ sec.28, T.4 S., R.3 W.	-	-	6-19-74	7.84
					6-21-74	7.17
Do......	.....do.....	SW¼SW¼ sec.16, T.4 S., R.3 W.	-	1939, 1973	5-17-74	19.2
					5-30-74	19.9
					6-17-74	14.5
					6-18-74	9.36
					6-19-74	8.48
Pudding River	Molalla River	SE¼SE¼ sec.12, T.4 S., R.1 W.	-	-	9-12-74	*59.9
Gales Creek	Tualatin River	SW¼SE¼ sec.7, T.1 S., R.3 W.	74.0	1966, 1973	10-17-73	*19.8
					5-15-74	137
					6-26-74	*39.2
					7-24-74	*17.1
					9-05-74	*5.56
West Fork Dairy Creek	Dairy Creek	SW¼NW¼ sec.17, T.1 N., R.3 W.	77.2	1967, 1973	10-16-73	*9.90
					4-30-74	102
					6-26-74	*14.4
					7-25-74	*5.96
					9-05-74	*1.35
East Fork Dairy Creek	.....do.....	SE¼SW¼ sec.9, T.1 N., R.3 W.	65.5	1967, 1973	10-16-73	*11.3
					4-30-74	98.1
					6-26-74	*25.7
					7-25-74	*12.2
					9-05-74	*9.01
Rock Creek	Tualatin River	SW¼NW¼ sec.9, T.1 S., R.2 W.	74.0	1973	10-18-73	*17.6
					5-07-74	63.1
					6-26-74	*25.4
					7-26-74	*17.5
					9-06-74	*15.4
Fanno Creek	.....do.....	NE¼NW¼ sec.13, T.2 S., R.1 W.	31.5	1967, 1973	10-16-73	*10.0
					4-29-74	25.1
					6-19-74	*10.5
					7-29-74	*10.9
					9-03-74	*6.53
					9-30-74	*7.92
Eagle Creek	Clackamas River	SE¼ sec.30, T.2 S., R.3 E.	-	-	9-12-74	*31.4
Tickle Creek	Deep Creek	NW¼SE¼ sec.13, T.2 S., R.3 E.	-	-	9-12-74	*3.27
Deep Creek	Clackamas River	NW¼SE¼ sec.13, T.2 S., R.3 E.	-	-	8-28-74	*7.00
					9-12-74	*6.33
Clear Creek	.....do.....	NW¼NW¼ sec.18, T.2 S., R.3 E.	-	-	8-28-74	*16.2
					8-30-74	*18.6
					9-12-74	*17.3
Part 14		LOWER COLUMBIA RIVER BASIN				
Plympton Creek	Westport Slough	[illegible]	-	[illegible]	[illegible]	[illegible]
Big Creek	Columbia River	[illegible]	-	[illegible]	[illegible]	[illegible]
[illegible] Creek (site No. 1)	[illegible] Creek	[illegible]	-	[illegible]	[illegible]	[illegible]
					[illegible]	[illegible]
[illegible] Creek (site No. 2)	.....do.....	[illegible]	-	[illegible]	[illegible]	[illegible]
					[illegible]	[illegible]
[illegible] Creek	Columbia River	[illegible]	-	[illegible]	[illegible]	[illegible]
North Fork Klaskanine River	Klaskanine River	[illegible]	-	-	[illegible]	[illegible]
South Fork Klaskanine River	.....do.....	[illegible]	-	-	[illegible]	[illegible]

Discharge measurements at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 14		LOWER COLUMBIA RIVER BASIN--Continued				
Youngs River	Columbia River	NE¼NW¼ sec.22, T.7 N., R.9 W.	-	-	8-07-74	*19.1
Lewis and Clark River	.....do.....	SW¼NE¼ sec.30, T.7 N., R.9 W.	-	-	8-07-74	*31.8
Part 14		NECANICUM RIVER BASIN				
Necanicum River	Pacific Ocean	SE¼SW¼ sec.23, T.5 N., R.9 W.	-	1949-52	8-07-74	*13.8
South Fork Necanicum River	Necanicum River	NE¼SW¼ sec.19, T.5 N., R.9 W.	-	-	8-07-74	*8.76
Necanicum River	Pacific Ocean	SW¼NW¼ sec.14, T.5 N., R.10 W.	-	-	8-07-74	*39.6
Part 14		NEHALEM RIVER BASIN				
Cook Creek	Nehalem River	NE¼SW¼ sec.35, T.3 N., R.9 W.	-	-	9-12-74	*20.1
Foley Creek	.....do.....	NE¼NE¼ sec.1, T.2 N., R.10 W.	-	-	9-12-74	*18.1
Part 14		TILLAMOOK RIVER BASIN				
Bewley Creek	Tillamook River	NW¼SW¼ sec.18, T.2 S., R.9 W.	-	-	9-21-74	*2.10
Part 14		NORTH COAST BASIN				
Nestucca River	Pacific Ocean	NE¼SE¼ sec.30, T.3 S., R.8 W.	-	-	9-21-74	*60.9
Moon Creek	Nestucca River	SE¼NW¼ sec.29, T.3 S., R.8 W.	-	-	9-21-74	*7.84
East Beaver Creek	Beaver Creek	SW¼SE¼ sec.17, T.3 S., R.9 W.	-	-	9-21-74	*7.24
Beaver Creek	Nestucca River	SW¼SW¼ sec.20, T.3 S., R.9 W.	-	-	9-08-74	*16.1
Three Rivers	.....do.....	NW¼SW¼ sec.32, T.4 S., R.9 W.	-	-	9-07-74	*16.1
Do......	.....do.....	NW¼SW¼ sec.32, T.4 S., R.9 W.	-	1931-32, 1934-37, 1949-52	8-22-74	*42.6
Clear Creek	.....do.....	SW¼SW¼ sec.27, T.4 S., R.10 W.	-	-	9-20-74	*1.03
Little Nestucca River	Nestucca Bay	SW¼SE¼ sec.28, T.5 S., R.9 W.	-	-	9-07-74	*5.46
Do......	.....do.....	NW¼NW¼ sec.13, T.5 S., R.10 W.	-	1973	8-20-74	*43.0
Part 14		SAND LAKE BASIN				
Sand Creek	Sand Lake	SW¼SE¼ sec.20, T.3 S., R.10 W.	-	1937	8-20-74	*7.02
Jewel Creek	Sand Creek	SW¼NW¼ sec.21, T.3 S., R.10 W.	-	1937	8-20-74	*3.93
Part 14		NESKOWIN CREEK BASIN				
Neskowin Creek	Pacific Ocean	Sec.36, T.5 S., R.11 W.	-	1973	8-20-74	*16.3
Part 14		SALMON RIVER BASIN				
[illegible]	Salmon River	[illegible]	-	1973	[illegible]	[illegible]
[illegible]	.....do.....	[illegible]	-	-	[illegible]	[illegible]
[illegible]	Salmon River	[illegible]	-	[illegible]	[illegible]	[illegible]
Part 14		[illegible]				
[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]

Discharge measurements at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 14		DRIFT CREEK BASIN				
Drift Creek	Pacific Ocean	SE¼SW¼ sec.36, T.7 S., R.11 W.	-	-	7-07-74 9-03-74 9-30-74	103 *40.7 *27.6
Part 14		SILETZ RIVER BASIN				
Deer Creek	Sunshine Creek	NW¼SE¼ sec.12, T.9 S., R.9 W	-	-	12-27-73	284
Part 14		ROCKY CREEK BASIN				
Rocky Creek	Pacific Ocean	SW¼NE¼ sec.19, T.9 S., R.11 W.	5.36	1973	9-26-74	*1.72
Part 14		SILTCOOS RIVER BASIN				
Siltcoos River	Pacific Ocean	NE¼NE¼ sec.33, T.19 S., R.12W.	-	-	10-19-73 11-19-73 12-18-73 3-17-74 4-29-74 5-29-74 6-27-74 7-29-74 9-10-74	11.2 1,380 1,260 1,170 50.6 16.6 198 18.3 20.0
Part 14		UMPQUA RIVER BASIN				
Applegate Creek	Cow Creek	SW¼SW¼ sec.2, T.32 S., R.3 W.	-	1973	9-07-74	*2.54
Windy Creek	......do......	SE¼SW¼ sec.33, T.32 S., R.6W.	-	-	8-20-74	*2.17
Cow Creek	South Umpqua River	SE¼SW¼ sec.33, T.32 S., R.6W.	-	1925, 1933	7-23-74 8-20-74	*17.6 *11.4
Cow Creek	......do......	SE¼SW¼ sec.19, T.30 S., R.5W.	-	1949-52, 1973	7-31-74 8-20-74	*44.4 *26.8
Olalla Creek	Lookingglass Creek	[illegible] sec.27, T.28 S., R.[illegible]W.	-	-	7-19-74	*2.33
Newton Creek	South Umpqua Creek	[illegible] sec.[illegible], T.27 S., R.[illegible]W.	-	-	6-17-74	3.56
North Umpqua River	Umpqua River	[illegible] sec.[illegible], T.26 S., R.[illegible] E.	-	-	7-26-74	*212
Copeland Creek	North Umpqua River	[illegible] sec.[illegible], T.[illegible] S., R.[illegible] E.	-	-	7-26-74	*17.2
Calapooya Creek	Umpqua River	[illegible]	-	1971	11-13-73	911
[illegible] Creek	Calapooya Creek	[illegible]	-	1971	11-13-73	190
Oldham Creek	......do......	[illegible]	-	1971	11-13-73	139
Pollock Creek	......do......	[illegible]	-	-	[illegible]	[illegible]
Yoncalla Creek	Elk Creek	[illegible]	-	[illegible]	[illegible]	[illegible]
Elk Creek	Umpqua River	[illegible]	-	-	[illegible] [illegible]	[illegible] [illegible]
do......	......do......	[illegible]	-	-	[illegible] [illegible]	[illegible] [illegible]
Part 14		[illegible]				
Eel Creek	[illegible] Creek	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Discharge measurements at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 14		NORTH SLOUGH BASIN				
North Slough (known locally as Bear Creek)	Pacific Ocean	SW¼NE¼ sec.7, T.24 S., R.12 W.	2.42	1958-73	5-17-74 9-12-74	4.93 *.37
Left branch of North Fork Slough (known locally as North Slough)	North Fork of North Slough	NW¼ sec.1, T.24 S., R.13 W.	1.71	1957-67, 1969-73	5-17-74 9-12-74	3.06 *.35
Part 14		COOS RIVER BASIN				
West Fork Millicoma River	Millicoma River	NE¼NE¼ sec.9, T.24 S., R.11 W., below Stall Falls	-	1972-73	5-13-74 9-12-74	45.3 *3.18
Part 14		COQUILLE RIVER BASIN				
Middle Fork Coquille River	South Fork Coquille River	NW¼NE¼ sec.6, T.29 S., R.8 W.	-	1973	8-12-74	*.13
Lake Creek	Middle Fork Coquille River	SW¼SE¼ sec.31, T.28 S., R.8 W.	-	1973	8-12-74 8-26-74	*.24 *.12
Ferry Creek	Coquille River	NW¼SE¼ sec.29, T.28 S., R.14 W.	-	-	8-07-74	*4.65
Part 14		NEW RIVER BASIN				
Floras Creek	New River	NW¼SW¼ sec.2, T.31 S., R.15 W.	-	1926, 1931-37, 1949-51, 1965-67, 1973	7-10-74 8-05-74 9-12-74	*26.5 *5.58 *2.23
Part 14		SIXES RIVER BASIN				
Sixes River	Pacific Ocean	NE¼SW¼ sec.9, T.32 S., R.15 W.	-	1931-32, 1934-36, 1938, 1949-52, 1967-70, 1973	9-12-74	*15.7
Part 14		EUCHRE CREEK BASIN				
Euchre Creek	......do......	SW¼NE¼ sec.8, T.35 S., R.14 W.	-	1926, 1931, 1932, 1934-36, 1938, 1949-52, 1973	6-05-74 7-12-74 8-05-74 9-12-74	*119 *22.7 *10.9 *8.28
Part 14		ROGUE RIVER BASIN				
Flat Creek	Elk Creek	SE¼ sec.20, T.32 S., R.1 E.	-	1973	[illegible]	.27 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-	1973	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]

Discharge measurements at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 14		HUNTER CREEK BASIN				
Hunter Creek	Pacific Ocean	SW¼SW¼ sec.7, T.37 S., R.14 W.	-	1931, 1934, 1936, 1973	6-04-74 7-11-74 8-05-74 9-12-74	*31.4 *16.6 *6.83 *3.12
Part 14		MCVAY CREEK BASIN				
McVay Creek	Pacific Ocean	SE¼SE¼ sec.15, T.41 S., R.13 W.	-	-	8-19-74	*.04

* Base flow.
† Operated as a continuous-record gaging station.
a Approximately.
b Springfed.
c Base flow from intervening springs can be obtained by subtracting flow of Deschutes River below Crane Prairie Reservoir. (See station 14054000.)

Warm Springs River seepage investigations - headwater to mouth

A series of discharge measurements were made during the 1974 water year, from Oct. 2-5, on the Warm Springs River, tributaries, and diversions, to study channel gains and losses. Because Mill Creek contributes approximately 40 percent of the total flow at its confluence with the Warm Springs River, discharge measurements have also been made along its length, and it has been treated as a subreach. Measurements were made during periods of constant base flows of the streams. Flows near the mouth at the gaging station at Kahneetah Hot Springs showed less than 1 percent difference in discharge for the entire measuring period. No measurable precipitation had fallen on any of the drainage area for 7 days prior to the investigation. Tributary flow was considered a contribution not a gain; diversion was considered a deduction and not a loss. Indicated gains or losses may be substantially in error because of small inaccuracies in open-channel measurements. Water temperatures have been included in this tabulation because they are helpful in locating major springs. No previous seepage investigation has been made in this reach.

WARM SPRINGS RIVER

Date	Stream or diversion	Location	River mile	Discharge, in cubic feet per second				Water temp. °C
				Main stem	Tributary diversion	Gain or loss in section	Total gain or loss	
	Warm Springs River	Headwater.	51.4					
	... do ...	McQuinn line (Reservation boundary).	45.4					
10- 3-73	... do ...	At old reservation boundary in sec.6, T.7 S., R.9 E.	43.4	0.26			0.26	3.0
Do...	R.B. Tributary	In sec.4, T.7 S., R.9 E.	41.5		0.10		.89	9.5
Do...	Warm Springs River	10 ft below confluence with tributary in sec.4, T.7 S., R.9 E.	41.5	.99		+0.63	0.99	5.0
Do...	R.B. tributary	0.1 mi upstream from upper bridge in sec.3, T.7 S., R.9 E.	40.5		.10		66.5	-
Do...	Warm Springs River	At upper bridge on road M240 in sec.3, T.7 S., R.9 E.	40.4	66.6		+65.5	66.6	5.0
Do...	Bunchgrass Creek	Near Warm Springs Meadows in sec.2, T.7 S., R.9 E.	39.7		1.30		72.5	6.5
Do...	Warm Springs River	30 ft, below confluence with Bunchgrass Creek in sec.2, T.7 S., R.9 E.	39.7	73.8		+5.90	73.8	6.0
Do...	Big Springs	Near Schoolie Bridge in sec.7, T.7 S., R.10 E.	36.3		1.00		113	-
Do...	Warm Springs River	At Schoolie Bridge in sec.7, T.7 S., R.10 E.	36.3	116		+41.2	116	7.5
Do...	S.F. Warm Springs River	Near Schoolie Pasture at road B200 crossing in sec.18, T.7 S., R.10 E.	36.1		.10		116	-
10- 3-73	Warm Springs River	At old gage site (14-0955.00) at [illegible] Mill, in sec.10, T.7 S., R.11 [illegible]	29.3	118		+2.0	118	7.5
Do...	Badger Creek	At Highway 26 crossing approx. 1.3 mi from mouth, in sec.20, T.7 S., R.11 E.	26.6		0.16		118	-
Do...	Mill Creek Canal	At Highway 26 crossing approx. 2.3 mi from mouth in sec.25, T.8 S., R.11 E.	21.0		.3		118	-
10- 2-73	Mill Creek	At Highway 26 crossing approx. [illegible] mi from mouth in sec.[illegible], T.8 S., R.11 E.	20.3		71.4		197	8.0
10- 3-73	Warm Springs River	300 ft above confluence with Beaver Creek in sec.18, T.8 S., R.12 E.	18.3	193		-1.5	193	10.5
Do...	Beaver Creek	At mouth in sec.18, T.8 S., R.12 E.	18.3		25.7		[illegible]	10.0
Do...	Warm Springs River	Near Tohet Springs in sec.[illegible], T.8 S., R.12 E.	[illegible]	227		-6.0	227	7.0
Do...	Warm Springs River	At fish hatchery in sec.26, T.8 S., R.12 E.	10.2	242		+15.0	242	7.4
Do...	... do ...	At gage site (14-0971.00) at Kahneetah Hot Springs in sec.15, T.8 S., R.13 E.	6.3	237		-5.0	237	7.0

MILL CREEK

Date	Stream or diversion	Location	River mile	Main stem	Tributary diversion	Gain or loss in section	Total gain or loss	Water temp. °C
	Mill Creek	Headwater.	[illegible]					
10- 2-73	... do ...	Outflow of [illegible] Lake, in sec.[illegible], [illegible]	[illegible]	[illegible]			[illegible]	[illegible]
Do...	[illegible] Mill Creek	Outflow of [illegible] Lake, [illegible] mi from mouth, in sec.[illegible]	[illegible]		[illegible]		[illegible]	-
10- 2-73	Mill Creek	At road [illegible] crossing in sec.[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
Do...	... do ...	[illegible] ft above diversion structure, in sec.[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
Do...	Mill Creek [illegible]	[illegible] ft below diversion structure, in sec.[illegible]	[illegible]		[illegible]		[illegible]	[illegible]
Do...	Mill Creek	At road crossing below [illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
Do...	[illegible] Creek	At [illegible] road crossing, [illegible] mi upstream from mouth, in sec.[illegible]	[illegible]		[illegible]		[illegible]	-
Do...	Mill Creek	At Highway 26 crossing, in sec.[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

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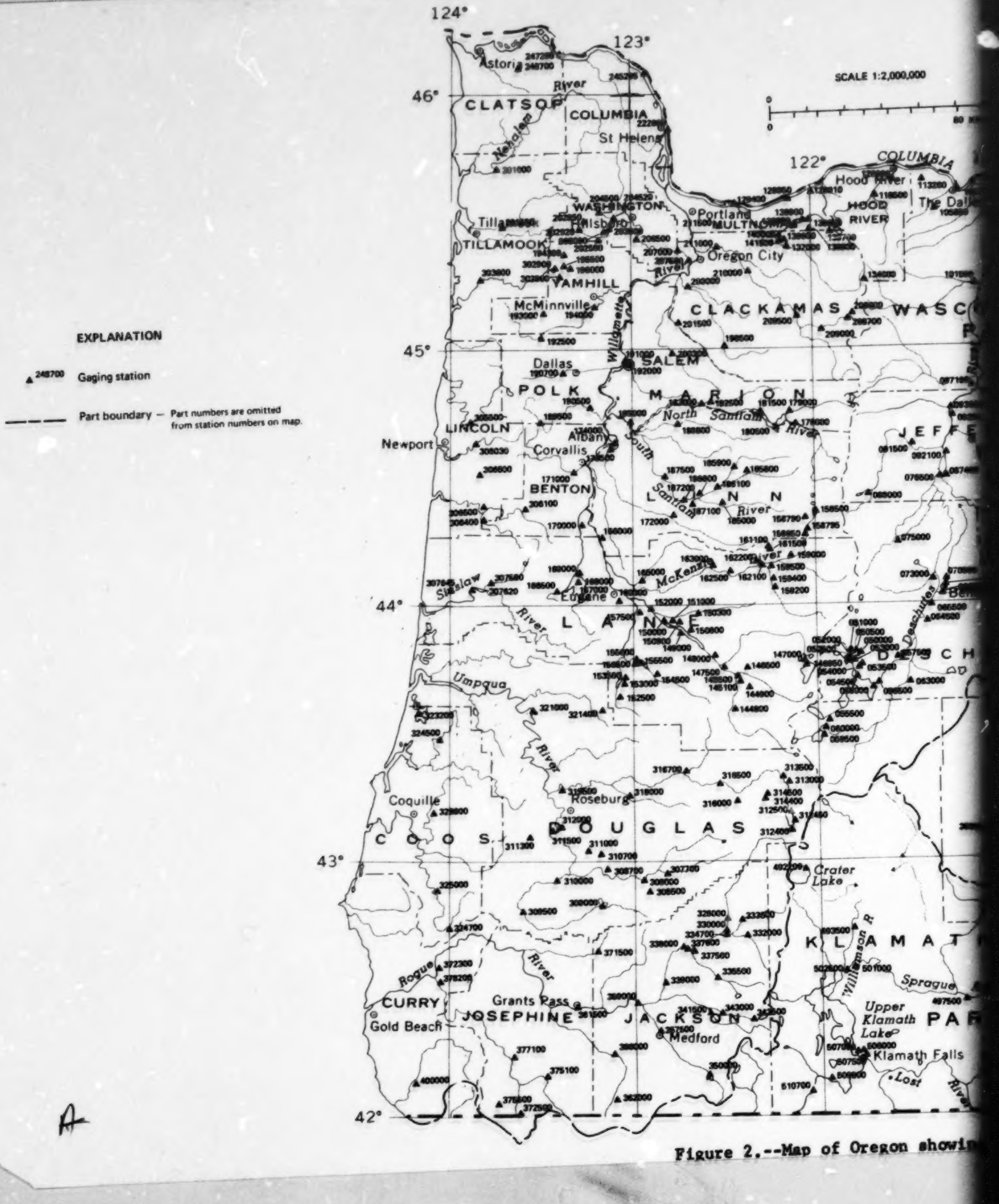
EXPLANATION
248700 Gaging station
Part boundary — Part numbers are omitted from station numbers on map.
SCALE 1:2,000,000
0
124°
123°
122°
46°
45°
44°
43°
42°
Astoria
CLATSOP
COLUMBIA
St Helens
River
Nehalem
WASHINGTON
Hillsboro
Portland
MULTNOMAH
Hood River
HOOD RIVER
The Dalles
COLUMBIA
Tillamook
TILLAMOOK
YAMHILL
Oregon City
McMinnville
CLACKAMAS
WASCO
Willamette River
Dallas
SALEM
POLK
MARION
North Santiam River
LINCOLN
Newport
Albany
Corvallis
South Santiam River
BENTON
LINN
JEFFERSON
Siuslaw River
McKenzie River
Eugene
LANE
Deschutes
DESCHUTES
Umpqua River
Coquille
Roseburg
COOS
DOUGLAS
Crater Lake
KLAMATH
Williamson R
Sprague
Rogue River
CURRY
Gold Beach
Grants Pass
JOSEPHINE
JACKSON
Medford
Upper Klamath Lake
Klamath Falls
Lost River

Figure 2.--Map of Oregon showin

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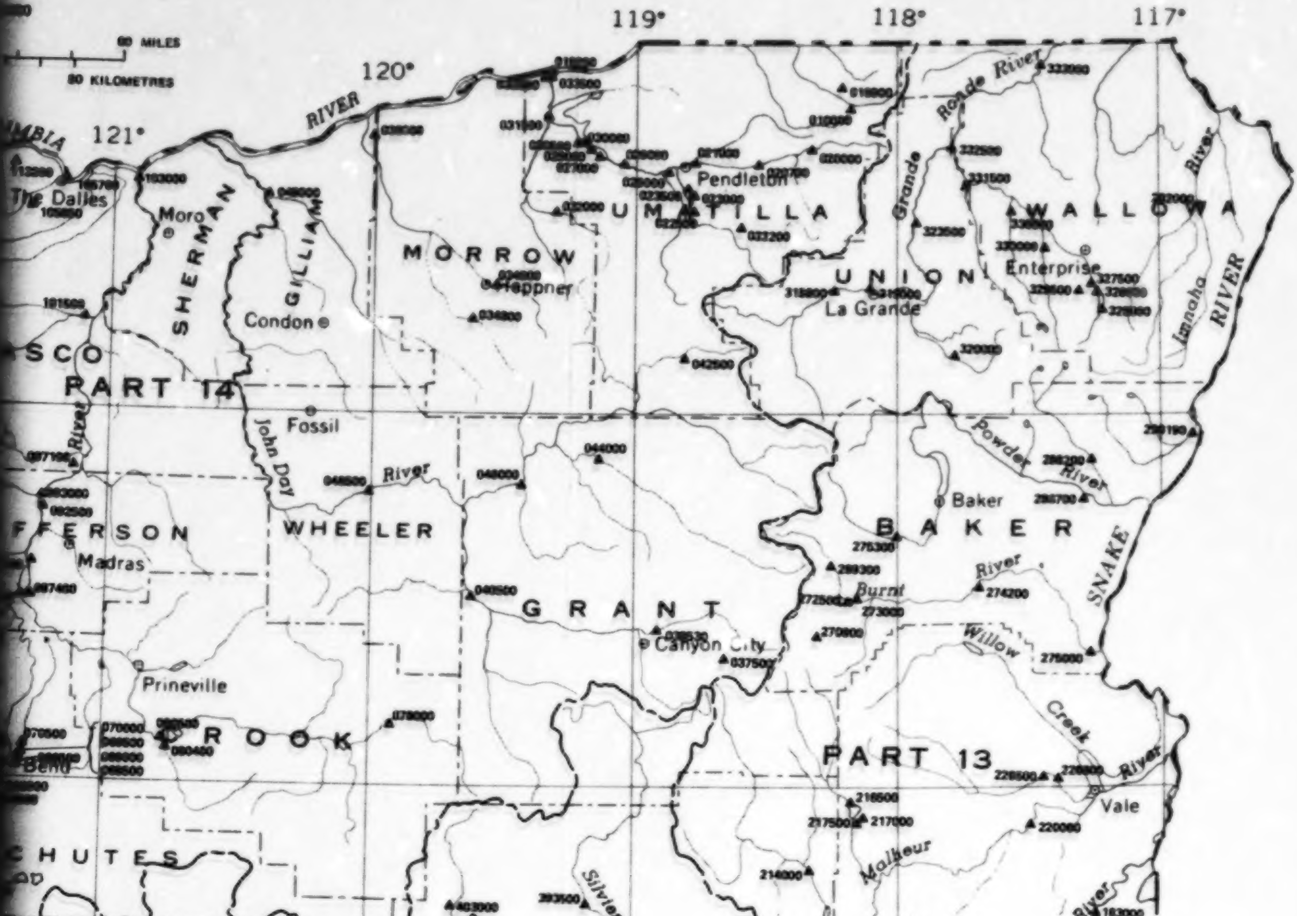

119°
118°
117°
120°
121°
80 MILES
80 KILOMETRES
MBIA
RIVER
The Dalles
Moro
SHERMAN
GILLIAM
Condon
MORROW
Heppner
UMATILLA
Pendleton
Grande
Ronde River
UNION
La Grande
WALLOWA
Enterprise
Imnaha
River
SNAKE
RIVER
ASCO
PART 14
Fossil
John Day
River
WHEELER
FFERSON
Madras
GRANT
Canyon City
BAKER
Baker
Powder
River
Burnt
River
Willow
Creek
Prineville
ROOK
Bend
PART 13
River
Vale
Malheur
CHUTES
Silvies
River
Burns
Silver
Creek
Harney Lake
Malheur Lake
MALHEUR
HARNEY
PART 10
Summer Lake
AKE
H
Lake Abert
Warner Lakes
Owyhee
River
RT 11
Lakeview
333000
332500
331500
320000
321000
323500
019000
010000
020000
033500
031000
030000
032000
036000
034000
042500
044000
046000
048500
040500
038530
037500
079000
275300
269300
272500
273000
270800
274200
276000
285700
288200
290190
218500
217500
217000
220000
226500
226000
214000
214500
215000
215500
183000
182500
181000
393500
403000
395500
396000
401500
402000
390000
387500
388000
384000
382000
379500
371500
368000
340000
340500
406000

location of active gaging stations.

B

32

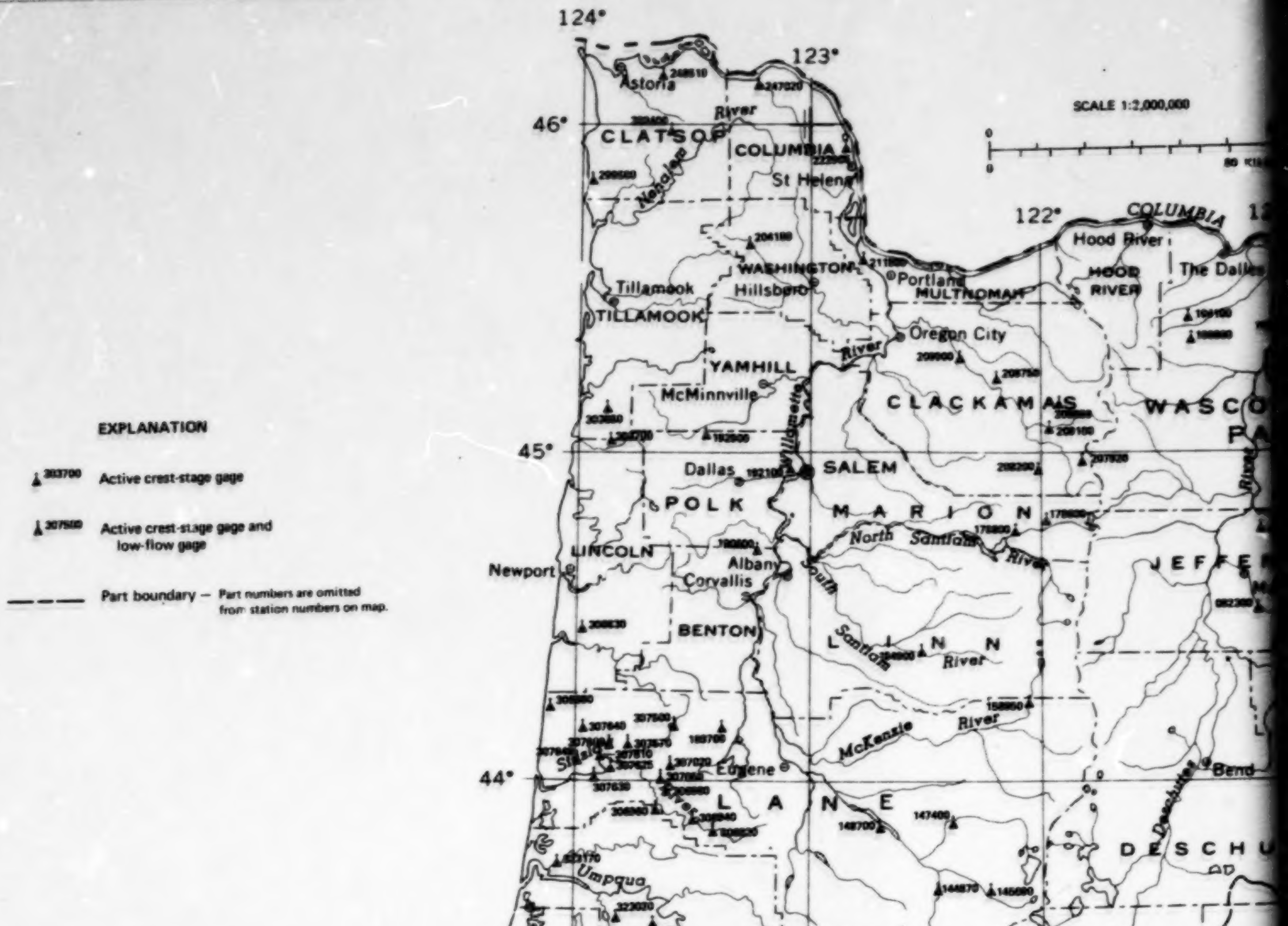
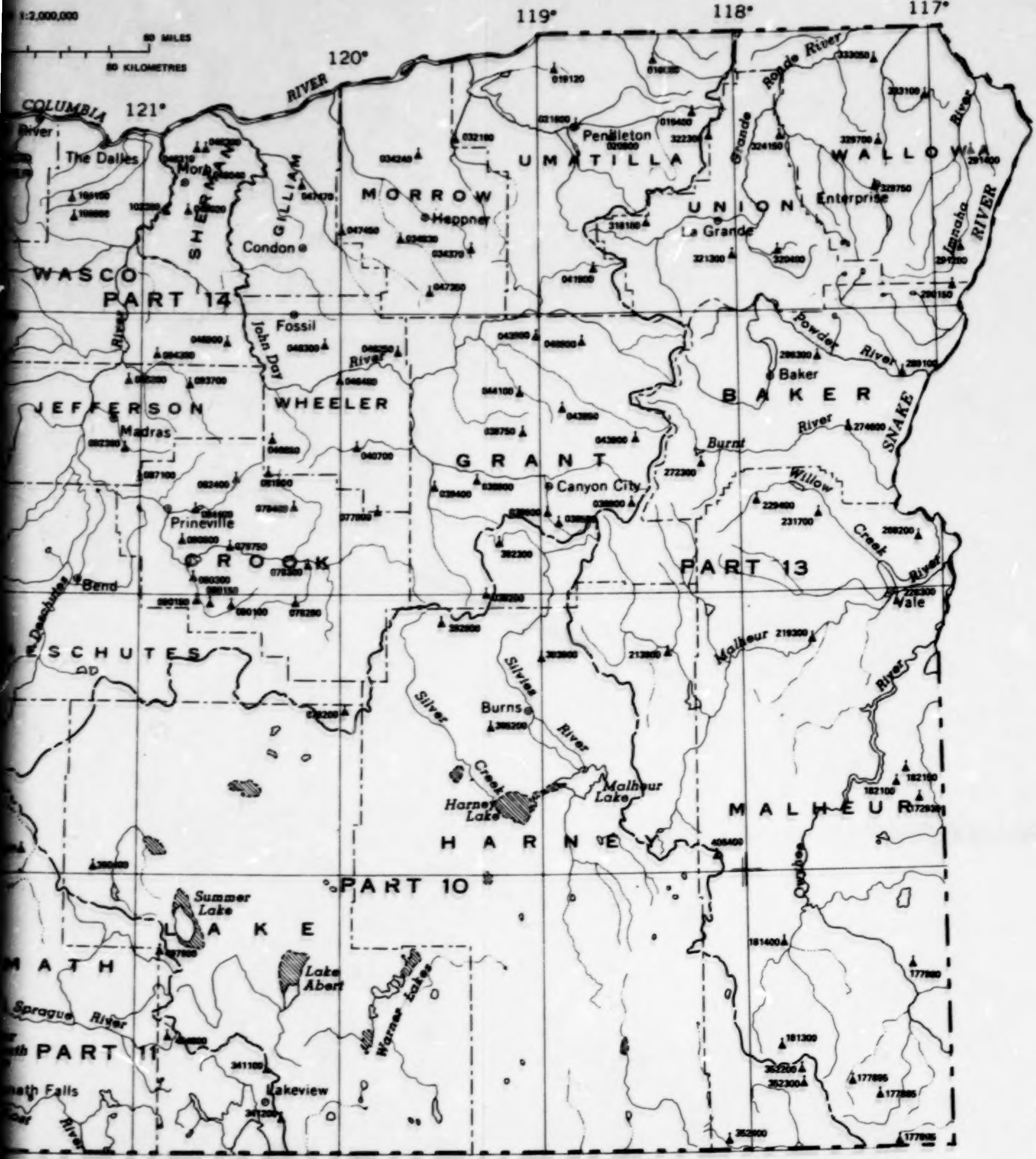

EXPLANATION
303700 Active crest-stage gage
307500 Active crest-stage gage and low-flow gage
Part boundary — Part numbers are omitted from station numbers on map.
SCALE 1:2,000,000
124°
123°
122°
46°
45°
44°
43°
42°
Astoria
CLATSOP
COLUMBIA
St Helens
Nehalem
River
COLUMBIA
Hood River
HOOD RIVER
The Dalles
WASHINGTON
Hillsboro
Portland
MULTNOMAH
Tillamook
TILLAMOOK
Oregon City
YAMHILL
McMinnville
CLACKAMAS
WASCO
Willamette
Dallas
SALEM
POLK
MARION
North Santiam River
LINCOLN
Newport
Albany
Corvallis
South Santiam
BENTON
LINN
JEFFE
McKenzie River
Eugene
Bend
LANE
Deschutes
DESCHU
Umpqua
River
Coquille
Roseburg
COOS
DOUGLAS
Crater Lake
KLAMATH
Williamson R
Sprague River
Rogue
CURRY
Gold Beach
Grants Pass
JOSEPHINE
JACKSON
Medford
Upper Klamath Lake
Klamath Falls
Lost River
PART

Figure 3.--Map of Oregon showing l

A

I


1:2,000,000
50 MILES
50 KILOMETRES
121°
120°
119°
118°
117°
COLUMBIA
RIVER
The Dalles
WASCO
SHERMAN
Moro
GILLIAM
Condon
MORROW
Heppner
UMATILLA
Pendleton
UNION
La Grande
WALLOWA
Enterprise
Grande Ronde River
Imnaha River
SNAKE RIVER
PART 14
Fossil
John Day River
WHEELER
JEFFERSON
Madras
Prineville
CROOK
Bend
Deschutes
DESCHUTES
GRANT
Canyon City
BAKER
Baker
Powder River
Burnt River
Willow Creek
PART 13
Vale
Malheur River
Burns
Silvies River
Silver Creek
Harney Lake
Malheur Lake
HARNEY
MALHEUR
Owyhee
PART 10
Summer Lake
LAKE
Lake Abert
Warner Lakes
Sprague River
PART 11
Lakeview
Klamath Falls
KLAMATH

showing location of partial-record stations.

B

3F